

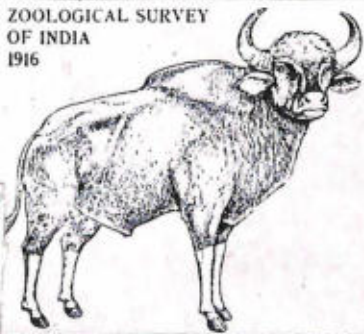


# BIBLIOGRAPHY OF INDIAN ZOOLOGY

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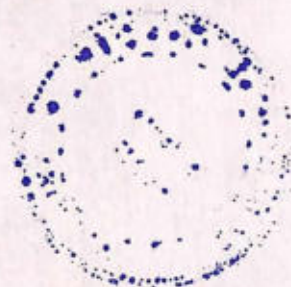
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*Compiled and Prepared by the staff of*

INFORMATION & DOCUMENTATION DIVISION  
Z. S. I., CALCUTTA

- Dr. G. S. Arora : *Scientist 'C'*
- Shri M. Z. Ansari : *Asstt. Zoologist and Officer-in-Charge*
- Manuscript Prepared by* : Shri M. Z. Ansari  
Shri Raja Ram  
Shri Amalendu Das  
Shri Asim Chakrabarti
- Manuscript Typed by* : Shri Sukumar Chowdhury  
Shri Bishnu Pada Mondal



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The information regarding published work on Indian Zoology may please be forwarded to the Director, Zoological Survey of India, 34, Chittaranjan Avenue, Calcutta-700 012 for incorporating in the **Bibliography of Indian Zoology**.

## FOREWORD

The 21st Volume of the Bibliography of Indian Zoology deals with the published zoological literature that refers mainly for the year 1978 and a part for the year 1977 on the fauna of the Indian Region including Bangladesh, Burma, Bhutan, Nepal, Pakistan and Sri Lanka.

Some of the papers have been highlighted and briefly reviewed. A perusal of the published literature reveals a wide range of subjects covering Wildlife, Economic Zoology, Behaviour, Histochemistry, Systematics/Faunistics & Zoogeography, Parasitology, Cytogenetics/Cytology, Palaeozoology etc. These studies brought to light 624 Taxa new to science, that are listed separately. Of these nearly three-fourth of it represents Arthropoda including Arachnida, Myriapoda, Crustacea and Insecta. For those workers who are interested in literature on a particular group, or of a particular Area/State, would find chapters IV and V usefule, where figures in bold-face deal with new taxa.

It is hoped that publication of this Bibliography will benefit all the workers in various fields of Zoology. Though this Volume covers the year 1978, the consolidated references offer a source information on Indian Zoology.

It will be highly appreciated if all the workers on Indian Zoology, continue to send their reprints of publications to give wider coverage of their work by bringing it to the notice of others.

Thanks are due to the staff of Information & Documentation Division, for their sincere efforts in compiling and preparing this volume, and also to the staff of Publication Division for bringing out this publication.

Dr. B. K. Tikader  
*Director.*

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## I. BRIEF REVIEW FOR THE YEAR 1978

### INTRODUCTION

The scientific literature compiled in this volume refers to the zoological papers published in India and abroad mainly for the year 1978 and a part for 1977. There are over 2153 references, which would primarily form a guide to the work done in the Indian region. The references have been arranged alphabetically under the authors' name, prefaced by a Brief Review which reflects the main trend of zoological researches in India. The Bibliography is followed by a list of New Taxa, Subject Index and a Regional Bibliography. The Brief Review is arranged under the following 18 scientific groups.

1. GENERAL ZOOLOGY
2. PROTOZOA
3. PORIFERA
4. COELENTERATA (CNIDARIA)
5. PLATYHELMINTHES
  - (a) TURBELLARIA
  - (b) TREMATODA
  - (c) CESTODA
6. ASCHELMINTHES
  - (a) ROTIFERA
  - (b) NEMATODA
7. ACANTHOCEPHALA
8. ANNELIDA
9. SIPUNCULIDA
10. BRYOZOA (ECTOPROCTA)
11. BRACHIOPODA
12. MOLLUSCA
13. PENTASTOMIDA
14. ARTHROPODA

- (a) TRILOBITA
- (b) ARACHNIDA
- (c) CRUSTACEA
- (d) MYRIAPODA
- (e) INSECTA
15. ECHINODERMATA
16. HEMICHORDATA
17. PROTOCHORDATA
18. CHORDATA
  - (a) PISCES
  - (b) AMPHIBIA
  - (c) REPTILIA
  - (d) AVES
  - (e) MAMMALIA

### 1. GENERAL ZOOLOGY

Behura has made observations on the vanishing wildlife of India. Bhatia has furnished an account of the wheat grain variability to infestation by storage pests. Channabasavanna has made observations on the supervised control for tackling pest problems. Daniel has furnished an account of the conservation strategy for a threatened world. Daw has made studies on the vanishing wildlife of India. Futehally has made observations on the prospects of India's wildlife. Jana has furnished an account of the plankton ecology of some thermal springs in West Bengal. Kaliyamurthy has made observations on the changes in the environmental features of Pulicat Lake in relation to tides. Konnur *et al.* have made studies on the plankton composition in the inshore waters of Karwar. Lamba and Bhatnagar have made observations on the fauna of Corbett

National Park. Roy has made studies on the preservation and welfare of wildlife in India. Sinha has made observations on the wildlife in Bandhavagarh National Park. Srivastava and Bhatnagar have made studies on law of priority and *nomen oblitum*.

## 2. PROTOZOA

### Systematics :

A total of 33 new species and two new genera have been described mainly from reptiles, birds, fishes, amphibians and insects. The details are as follows :

Dayakar *et al.* have described a new flagellate from the rectum of a lizard. Devdhar and Amoji have described two new species and a new genus from Karnataka. While, Devdhar and Deshpande have described a new gregarine from a beetle, Gowda has recorded a new genus and two new species of foraminifera from southern India. Haldar and Chakraborty have described three new cephaline gregarines from insects. Joshi has described two new trypanosomes from two freshwater fishes. Kalavati and Narasimhamurti have erected five new species, of which two are microsporidian parasites and the rest three are gregarines from termites. Krishnamurthy and Santhanam have described a new ciliate from the waters of Porto Novo. Krishnamurthy and Madre have reported three new species from Maharashtra. Besides, Krishnamurthy and Sultana have described two new species from the insects. Madre has reported three new species from the reptiles. Mandal has described two new trypanosomes from the fresh water fishes. Narasimhamurti has described a new coccidian parasite from the gut of a centipede. Rao *et al.* have described three new flagellates from Andhra Pradesh. Sinha has described a new trypanosoma from a freshwater turtle while Sinha *et al.* have reported a new species from a flycatcher.

### Physiology :

Gour and Yadav have made studies on *in vitro* cultivation of *Theileria* sp. in bovine lymphoid cell culture.

### Cytology :

Kaul, Sapra and Dass have made ultrastructural, cytological and morphological studies on the effects of continuous feeding of *Tetrahymena* on *Stylonychia* sp.

### Ecology :

Bhattacharya and De have dealt with the distribution of soil protozoa in association with nitrogen fixing bacteria.

### Faunistics :

Nandi and Mandal have made studies on some avian haematozoa from Jammu and Kashmir. Tiwari has made studies on some new records of hypermastigids from Sagar Island of West Bengal.

### Control :

Gill *et al.* have made studies on the chemoprophylaxis with tetracycline drugs in the immunisation of cattle against *Theileria annulata* infection.

### Parasitology :

Gupta and Kalra have furnished a note on the presence of ciliated protozoa in the lung of a bullock. Kulkarni *et al.* have dealt with the prevalence and patterns of parasitic infections in rural areas around Nagpur. Mandal has made a cross transmission study of a *Trypanosoma* sp. from a freshwater snake.

### Pathology :

Gupta and Kalra have made studies on *Brugia malayi* infective larval whole worm antigen in the diagnosis of filariasis by skin test.

### 3. PORIFERA

#### Morphology :

Kartha and Mookerjee have made studies on ultrastructure of cell contact in sponge cells.

#### Cytology :

Kartha and Mookerjee have made studies on cell aggregation, macromolecular synthesis and pattern of tissue reconstruction in sponge cells.

### 4. COELENTERATA (CNIDARIA)

#### General :

Patel and Bhaskaran have made observation on the possibilities of establishing coral based industries in Gujrat.

#### Systematics :

Rao has described a new species of *Halammoicydra* from Andamans.

#### Cytology :

Datta has made studies on chiasma formation in hydra.

#### Faunistic & Zoogeography :

Rengarajan has made observation on the distribution of siphonophores along the west coast of India and the Laccadive sea. Santhakumari has made studies on the distribution of Scyphomedusae in the Indian Ocean.

### 5. PLATYHELMINTHES

#### (a) Turbellaria

**Morphology :** Taneja has furnished an account of the acrosome formation in *Spinicirrus* sp.

#### (b) Trematoda

#### Systematics :

Seven species and two genera were discovered as new to science from various hosts like molluscs, freshwater fishes, marine fishes,

snakes and birds. Besides, taxonomic revisions were also provided. These are mainly as follows.

Ahmad referred to digenetic trematodes from marine fishes. While Bansal redescribed an amphistome snail cercaria, *Cercaria chauhani*, Bansal & Jain described a new taxa *Cercaria chandrapali*. While Gupta, N. K. & Kumari, in separate communications, described a new genus as well as a new species each in the family Hemiuridae and Bucephalidae from freshwater fishes from Ropar, Gupta, N. K. & Sharma described a new Xiphidiocercous cercarian from snail at Dera Bassi. While Gupta, R. C. & Gupta, S. P., in separate communications, described trematode parasites of birds at Kanpur and discovered six new species under Notocotylidae, they further reported five new trematode parasites of the family Hemiuridae from marine fishes from Kerala and Orissa.

Hafeezullah discussed Acanthocolpid trematodes of marine fishes of India, with particular reference to the synonymies.

#### Physiology & Biochemistry :

Sinha & Rao discussed esterases, particularly its distribution in trematodes.

#### Cytology :

Duda & Gupta studied the chromosome number in *Polystomoides kachugae*.

#### Morphology & Biology :

Jain discussed biology, morphology and the relationship in *Cercaria helicorbisi*.

#### Histology & Histochemistry :

Mandawat & Sharma studied the histochemical distribution of acetyl & butyryl cholinesterase in trematode tissues. While Sharma observed distribution of monoamine

oxidase in lymphatic system, and chaemoarchitectonics of the prostate glands of trematodes, Vaidya & Mehrotra made histochemical studies in other digenetic trematodes.

#### Faunistics & Zoogeography :

Gupta, N. K. & Kumari discussed already known trematodes, *Xenotoden cancella* from fresh-water fish from Ropar, *Paradistomoides* from lizard from Chandigarh, and from Indian frogs. Nama reported on the occurrence of a trematode *Hemipera ovocaudata*.

#### Parasitology & Pathology :

Mahajan *et al.* have studied parasitisation of *Isoparorchis hypselobagri* in *Channa punctatus*. Samuel studied a trematode infection in an edible oyster.

### (c) Cestoda

**Systematics :** Nama has described a new cestode from Jodhpur, Rajasthan.

**Development :** Sinha has made observations on the *in vitro* cultivation of a cestode in various media.

**Parasitology :** Pandey *et al.* have made observations on the pulmonary echinococcosis in buffaloes.

## 6. ASCHELMINTHES

### (a) Rotifera

#### Systematics :

Vasisht and Agarwal have studied the male of rotifer *Epiphanes* sp.

#### Faunistics :

Patil has made observations on the new records of Rotatoria from northeast India. Sharma has given an account of the contributions to the rotifer fauna of West Bengal.

#### Control :

Natarajan and Varghese have made observations on the occurrence of swarms of *Conochilus* sp. in experimental cisterns fertilised with cattle dung.

### (b) Nematoda

#### Systematics :

A total of 24 new species and five new genera have been described mainly from fishes, reptiles, soil and vegetable crops. The details are as follows :

Ahmad and Jairajpuri have described a new genus and a new species from the soil of Howrah. Andrassy has described three new nematodes from fresh water sites in the Himalayas. Arya and Johnson have reported a new species from a marine fish. Baqri *et al.* have described two new species from the soil around roots of tea. Gupta and Aggarwal have described a new parasitic nematode from a tortoise. Gupta and Kaur have described a new genus and two new species from invertebrates. Kalavati *et al.* have described a new nematode from a molluscan host. Khan *et al.* have described two new genera and three new species from soil. Khan, W. U. *et al.* have also described two new species from Rajasthan. Parihar and Nama have recorded a new species. Rao and Jayaprakash have recorded a new species from Kerala. Ray and Das have erected a new genus and a new species from Orissa. Singh and Khera have described a new species from West Bengal. Singh, S. P. has described a new species from plant roots. Tandon and Singh have also described two new species from plant roots. Tewarson and Gupta have described a new parasitic nematode from a mole cricket.

#### Ecology :

Gupta and Lamba have made studies on some nematode parasites of arthropods.

#### Economic value & Control :

Jain has made observations on the effect of root-knot nematode on Japan sarson. Lall has made a survey of plant parasite nematodes of pan. Sundararaju has made studies on the

nematodes of coconut. Mukherjee and Sukul have made studies on the nemticial action of three species of wild herbs. Rajendran and Naganathan have made studies on the control of root-knot nematode in grapes. Varma has made observations on the comparative efficacy of nematicides for the control of root-knot nematode. Yadav and Pathak have made studies on the plant parasitic nematodes associated with rice crop in India.

#### Parasitology :

Basu has made studies on the weed hosts of root-knot nematodes. Chellappa has made an interesting observation on *Gnathostoma* sp. infestation in a domestic cat. De *et al.* have made studies on some little known nematodes from fishes. Singh and Khera have recorded a case of *Endotokia matricida* in *Acrobeloides* sp.

#### Bionomics :

Singhvi and Johnson have made studies on numbers, sex ratio and length of a parasitic nematode of a house rat. Singh and Khera have made culturing and life history studies of *Rotylenchulus reniformis* on brinjal.

### 7. ACANTHOCEPHALA

#### Morphology :

Parshad and Guraya have made morphological and histochemical observations on oocyte atresia in *Centrorhynchus carvi*.

#### Parasitology :

Joshi *et al.* have furnished a note on the occurrence of *Mediorhynchus gallinarum* in a domestic fowl in M. P.

### 8. ANNELIDA

#### General :

Chandra has made observations on the colour variation in *Haemadipsa* sp.

#### Systematics :

Rao has described a new species of *Hesionides* from Orissa Coast.

#### Physiology :

Nagabhushanam and Kulkarni have made studies on the thermal relations of the Indian leech and on the effects of some extrinsic factors on the respiratory metabolism of freshwater leeches. Subbarao has made observations on the volume regulation in a euryhaline oligochaete.

#### Faunistics :

Chandra has prepared a check-list of the leeches of Himachal Pradesh and also made addition to the leech fauna of Himachal Pradesh.

#### Behaviour :

Dhandapani has made observations on the abnormal swarming behaviour of the sedentary polychaete, off Waltair Coast.

### 9. SIPUNCULIDA

#### Systematics :

Halder has described a new sipuncula from the Andamans.

#### Morphology :

Dattagupta and Singhal have made studies on the morphology of *Achaetobonellia maculata*.

#### Faunistics :

Halder has furnished note on some Echiura from the east coast of India.

### 10. BRYOZOA (ECTOPROCTA)

#### Systematics :

Pillai and Madhavan have described a new species of *Hippoporina* from Bombay coast.

**Faunistics :**

Tilak and Julka have made studies on the occurrence of *Lophodella* sp. in lakes in western Himalaya.

**11. BRACHIOPODA****Systematics :**

Gupta has reported four new species from Kashmir in the form of fossils.

**Palaeozoology :**

Gupta has discovered fossils of Lamelli-branchiata, Pelecypoda, Cephalopoda, Coelenterata, Bryozoa, Arthropoda, Brachiopoda, Gastropoda and Crinoidea from Kashmir.

**12. MOLLUSCA****General :**

While Akhtar studied some molluscs associated with water hyacinth, De Silva made a general observation on Indian Octopus. Verma *et al.* studied pollutional aspects of few rivers of Uttar Pradesh with references to biological indices.

**Systematics :**

Chiplonkar & Badve studied palaeontology of Bagh beds, particularly with reference to *Ostreina*. While Lakshminarayana & Roy dealt with the Pelecypoda genus *Spondylus* Linn. collected from the Cretaceous beds of Trichinopoly, and described a new subspecies, Rajagopal & Mitra dealt with status of the types of Gastropod genus *Conus*.

**Physiology & Biochemistry :**

Ahamad *et al.*, in two separate communications, have studied the effect of malathion on amino acids, protein, glycogen and enzymes in *Lamellidens marginalis* and enzyme activity in *Pila globosa*.

Bhosle and Matondksar studied variation in trace metals in two populations of *Mytilus*

*viridis* from Goa. Goel & Prasad studied the effect of molluscicides on freshly laid eggs of *Indoplanorbis exustus* (Deshayes).

Various aspects of physiological and biochemical studies have been made in the two species of the genus *Pila* : in *P. globosa* particularly to study energy loss during aestivation by Haniffa ; changes in nucleic acid during aestivation by Kumari *et al.*, neuroendocrine regulation of succinic dehydrogenase activity by Naidu *et al.* ; effect of malathion on excretion by Ramana & Sivaiah ; on purified haemocyanin in relation to aestivation by Reddy *et al.* ; role of hepatopancreas in metabolism of copper with reference to aestivation and starvation by Reddy & Naidu ; and alkaline phosphate activity during active and aestivation period by Srinivasa Reddy *et al.* In case of *P. virens* Shylaja & Alexander studied the neurosecretion in active and aestivating snails and the role of water availability on the pattern of nitrogen excretion.

The land slug—*Laevicaulis alte* was studied by Kulkarni to see the effect of optic tentacle on the growth of albumen gland, and by Mastanaiah *et al.* to study circadian rhythmic activity of isocitrate dehydrogenase.

The garden snail, *Cryptozona ligulata* was studied to observe oxidation of glucose and synthesis of glycogen in various tissues, particularly during aestivation and starvation, by Krupanidi *et al.* Krupanidi, Reddy & Naidu also studied organic composition of tissues and copper metabolism, in separate communications, in the same species.

**Morphology :**

Durve & Shrikhande studied shell area in relation to linear dimensions in the oyster *Crassostrea gryphoides*. Shrivastava, M.M.P. and Shrivastava, S. studied the abnormal nerve pattern in *Pila globosa*.

*Ecology :*

Ansari *et al.* studied dimensional relationship in green mussel- *Mytilus viridis* from two environments. Mohammed studied the salinity tolerance of *Meretrix costa*. While Murty & Balapameswara Rao studied the effect of environment on the shell shape of *Neritina violacea* (Gmelin), Samant & Agarwal studied environmental effect on survival and activity of *Lamellidens corrianus*. Srinivasan & Chandra Mohan made ecological observations on the occurrence of *Limnoria* sp. *vis-a-vis* other organisms.

*Biology & Reproduction :*

Alagarwami & Chellan made observations on fouling and boring organisms and mortality of pearl oysters in the farm at Veppalodai. Krishnakumari *et al.* carried on culturing of *Ariophante madraspatana* (Gray) in the laboratory. Nagabhushanam & Lahgaonkar studied the seasonal reproductive cycle in *Lamellidens corrianus*. While Raut has studied aestivating population of *Achatina fulica* Bowdich in West Bengal, Vaidy and Nagabhushanam have made studies on effect of temperature on *Indoplanorbis exustus* (Deshayes) in laboratory.

*Economic value & Control :*

Agrawal observed toxic effects of endrin on certain freshwater gastropods. Ansari has discussed the possibilities of fishery and culturing of molluscs in Goa. Appukuttan has reported a mytilid borer-*Lithophaga (Diberus) bisulcata* causing damage to commercially important gastropods. While Bai *et al.* have reported garden snail, *Ariophanta madraspatana* as a food for the rodents, Gupta *et al.* have discussed integrated control of giant African snail in Andamans to reduce its population. Muley discussed biological and chemical control of vector snail, *Melania*

*scabra*. Murty presented a note on the natural pearl, *Placenta placenta*. Saralaya & Nagaraj studied utilization of shell-fishes by canning in Karnataka. Thomas referred to mussels as food.

*Faunistics :*

Akhtar reported on a collection of freshwater molluscs from Lahore. While Joseph reported on the occurrence of pearls in the Indian backwater oyster *Crassostrea madrasensis*, Ranade reported occurrence of pearl-oyster in Ratnagiri district. Mahadevan & Nayar made an underwater observation on the settlement of spat of pearl-oyster on the paars off Tuticorin. While Mohan & Rao reported *Sapietta oweniana* from Visakhapatnam, Natarajan reported *Geloina bengalensis* in the Coleroon Estuary, and Sarvesan reported *Sepia trygonina* from Gulf of Mannar. Rajagopal & Mukherjee, while making contributions to the study of molluscan fauna of India, presented a paper on Archaeogastropoda marine molluscs of Coromandel Coast, Palk Strait and Gulf of Mannar. While Suneja commented on the earlier pelecypods from Indian subcontinent, Unnithan reported four new records of prosobranch gastropods from Mandapam.

## 13. PENTASTOMIDA

*Systematics :*

Karuppaswamy and Rajulu have discussed, in detail, the phylogeny of Pentastomida and suggested that this group should be treated as a phylum as it is related to both Annelida and Arthropoda.

## 14. ARTHROPODA

## (a) Trilobita

*Systematics :*

Gupta and Kaul have described a new species from Kashmir.

## (b) Arachnida

*Syst ematics :*

Athias-Henriot discovered a new species of Acarina from Nepal collected during Bhutan Expedition in 1972. Barman has found a new species of spider from Khasi-Jaintia Hills. Beier has described two new species of Pseudoscorpione, one from Meghalaya and the other from Pakistan. Bhattacharya has reported five new species of Mesostigmata (Acari) under the family Sejidae from West Bengal. Biswas has recorded a new species of spider from Karnataka, India. Bohdanowicz has described two new species of Araneae collected from Bhutan-Expedition in 1972 and have been preserved in Basel Museum. Brignoli, from Bhutan-Expedition in 1972, has reported 15 new species under four different families from Bhutan. Chakrabarti, Bhaduri and Raychaudhuri have described two new species of Acari from W. Bengal. Gupta has contributed three papers on Indian Acarina (Fam. Phytoseiidae) out of which two papers deal with nine new species from southern India and some new records and one paper deals with 5 new species and some new records from eastern India. Maninder and Ghai have presented two papers on Acarina of the family Tenuipalpidae and described a new species of *Colopalpus* from Phagwara, Punjab and nine new species of *Tenuipalpus* from various parts of India. Mohanasundaram and Subramaniam have erected a new species of eriophyid mite from Coimbatore, Tamil Nadu. Patel has reported a new species of spider with notes on other species of the family Oxyopidae from Bhavnagar, Gujarat. Proszynski has discovered four new species under the family Salticidae collected from Bhutan during Bhutan-Expedition in 1972 and described 7 new records. Tikader has made extensive studies on some Mygalmorph spiders and recorded 8 new

species under three different families from various regions of India, such as Garo Hills, Madras, Bandipur, Bombay, Khasi Hills, Shillong, Mahabaleshwar and Darjeeling. He along with Biswas has also recorded two new species of spiders from Mysore and West Bengal while with Malhotra he has reported a new species of spider from Goalpara, with description of a new record of a rare spider whose family and genus are recorded for the first time from India.

*Morphology :*

Tikader and Malhotra have made an observation on the sexual dimorphism in the jumping spider *Phidippus pateli*.

*Economic value :*

Tikader has described spiders as our friends in that they are an enemy of our enemies.

*Development :*

Nagar, Kumar and Raizada have dealt with the redescription and certain developmental stages of the Pterygosomid mites of Delhi.

*Behaviour :*

Ram and Prasad have made some field observations on Odonate predation by spiders.

*Faunistics & Zoogeography :*

Gupta and Mukherji, in the present work which is a first venture of its kind in India, have made an attempt to evaluate the seasonal population fluctuation and vertical migration of these soil arthropods. Kumar has furnished a note on Ixodid tick fauna of domestic animals from district Aligarh (U. P.). Mittal has dealt with the spiders of Hoshiarpur. Some mesostigmatid mites (Acari) from West Bengal were described as

new records and examination of part of the collected material revealed the presence of 15 species in 13 genera and 8 families out of which 3 genera and all the species are new records for the country.

#### *Parasitology & Pathology :*

In this paper Bhat and Naik have dealt with the experimental transmission of KFD virus by *Haemaphysalis wellingtoni* and zigzag transmission by bite to chicks.

#### *Wildlife & Conservation :*

Sharma has dealt with the ticks playing a notable role in impairing the wildlife population to a great extent.

### (c) Crustacea

#### *Systematics :*

Bruce has described a new species of pontoninid shrimps from the ninth cruise of R/V Anton Brunn IIOE, 1964. Chaudhuri, Ghauri and Mohan have reported two new species belonging to the Orders Conchostraca and Amphipoda from the aquatic fauna of Swat Valley, Pakistan. Haridas and Madhupratap have discovered a new species of copepod from Lakshadweep. Neale and Victor have recorded a new species from the material from six samples from four localities collected by the Lund University Expedition to Ceylon in 1962. Radhakrishna, S. has presented the description of a new species of Copepoda including its immature stages. Radhakrishna, Y. and Ranga Reddy have erected a new species (Copepoda) from the collections made during the course of their investigations (July 1973-July 1974) on the copepod fauna of the lower reaches of the river Krishna, S. India. Ramakrishna and Venkata Ramaiah have described a new species of Cymothoid Isopod from Madras sea-shore waters. Raymond has dealt

with the characterization of five species of *Lysiosquilla* from the Indo-West Pacific region, out of which two previously known species of the genus and one new species of the genus are described and illustrated. Tirmizi and Ghani have described a new species of Decapoda from Pasni at 110 miles west of Karachi harbour.

#### *Anatomy :*

Ghauri has studied, in detail, the mandibles of five species of freshwater prawn-genus *Palaemon* from Pakistan.

#### *Physiology & Biochemistry :*

Cherian has presented a comprehensive paper on the results of laboratory experiments supplemented by field observations on the salinity tolerance of three species of isopods of the Cochin backwaters. He has also contributed a very detailed paper and an attempt has been made in the present communication to evaluate the combined effects of the parameters selected for the present study on the respiratory metabolism of the same three species of isopods of the same region.

#### *Economic value & Control :*

Ganapathy has made a detailed study on the scope for diversification of marine products of Mollusca, Crustacea and Pisces for export. While Ram and Mohan have made some preliminary observations on the trend in commercial crab fishery of Mangalore, Ramakrishna has dealt with the relationship of Crustacea with man. Roy and Mohanty have given an account of the prawn fishery of Chilka lake and contributed towards furthering our knowledge of the export trade of marine products of Orissa.

#### *Biology & Development :*

Mathew has studied the complete post-naupliar development and life-history of two species of the genus *Euphausia* from the

Indian Seas. Sharma and Tiwari have reported the development of individuals of *Macrobrachium lamarrei* hatched in the laboratory from females collected from the Indian Museum Tank and Dhakuria Lake, Calcutta.

#### *Faunistics & Zoogeography :*

Bruce has made an observation on the detailed description of a collection of pontoninid shrimps made in the western Indian Ocean in 1964 from the ninth cruise of R/V Anton Brunn, IIOE. Twenty four species of 14 different genera are represented here, out of which one species *P. minutus* is described as a new record for the first time from the Indian Ocean while the host-animals and geographical distribution of all the species collected are also briefly reviewed. Chaudhuri, Ghauri and Mohan have given a detailed account of the aquatic crustacean fauna of Swat valley, Pakistan, alongwith two new records belonging to Orders Ostracoda and Decapoda. Paulinose and George have made an attempt to correlate the occurrence and abundance of penaeid larvae with the penaeid prawn fishery of the various regions specially in the Indian Ocean and Bay of Bengal.

Srinivasan and Raghunathan have discussed the fluctuation and abundance of zooplankton with special reference to dominant groups like copepods and chaetognaths collected from Ennore Estuary during 1975-1976.

#### *Genetics :*

Goswami, U. and Goswami, S. C. have made karyological studies on six species of calanoid copepods and the results have been compared and discussed with the earlier data available on chromosomes of same genera.

#### (d) Myriapoda

##### *Physiology :*

Bano and Krishnamoorthy have studied the results on the nature of defensive secretions of the soil feeding polydesmoid millipede.

#### (e) Insecta

##### *General :*

Bose and Sen have endeavoured to give an account of the colonization of aquatic insects in a temporary pond on refilling.

##### *Economic value & Control :*

Batra, Dhar and Mukerjee have made an extensive assessment and evaluation of progress of plant protection in the Intensive Agricultural District Programme of Cachar (Assam) and Burdwan (W. Bengal). Jotwani and Butani have identified major pest problems in each region and field trials undertaken to collect pertinent data on each pest. Kashyap and Verma have discussed the damaging potentials of insect, mite and nematode pests of Kharif vegetables and devised ways and means for their control. Ram and Gupta have provided a note on incidence and avoidable losses due to insect pests in green fodder yield of cowpea. Sandhu has dealt with the insect-pests of Kinnow and their control in Punjab. Verma has made a detailed study on the important insect pests of rabi crops and summer and Kharif fodders and advocated measures for their control.

##### *Ecology & Behaviour :*

Khan and Sahni furnished a preliminary report on a recent survey of the aquatic insects communities of the River Beas ecosystem undertaken to form an idea of the composition and character of the Beas river ecosystem. Lall and Verma have discussed the changes in the soil-insect community under the impact of road construction and deforestation in the north-west Himalaya.

##### *Biochemistry :*

Datta and Banerjee have presented a paper on the efficacy of prostaglandins, cyclic-AMP, U-7118 and acetic acid as insect growth regulators and sterilants.

## Insect Orders

### (i) Collembola

#### *Ecology & Behaviour :*

In the present communication Hazra has dealt with the influence of two major soil factors on the distribution of collembolan fauna extracted by modified Tullgren Funnel methods at Barsul village, Burdwan. He has also studied, in details, the ecology of Collembola in a deciduous forest floor of Birbhum district, West Bengal, in relation to soil moisture. Muraleedharan and Prabhoo have made an observation on the food of three species of Collembola living together in a habitat to see whether, field conditions, they showed any food preference and whether their food sources were identical. Singh, U. R. and Singh, D. have made a comparative study of collembolan population recorded from five different terrestrial ecosystem and temperate grassland ecosystem.

### (ii) Ephemeroptera

#### *Systematics :*

Hubbard and Peters have included in a detailed catalogue, alongwith pertinent references, all the species of this Order reported from the Indian subregion of the Oriental Region and a bibliography of literature on the mayflies of the area is also prepared.

### (iii) Odonata

#### *Systematics :*

Lieftinck has discovered two new species from Bhutan during Bhutan-Expedition in 1972.

#### *Faunistics & Zoogeography :*

While Kumar has made an observation on the distribution and behaviour of the dragonflies around a freshwater lake and two small streams in western Himalayas, Tyagi

has presented a note on some new dragonfly records from northern India and Dehra Dun valley.

### (iv) Plecoptera

#### *Systematics :*

Zwick has given a detailed account of the discovery of 19 new species of this Order under four different families from Bhutan during Bhutan-Expedition in 1972.

### (v) Orthoptera

#### *Systematics :*

Singh has described two new species from Dehra Dun and Panjab, North-West India, suggesting that the genus *Brachycrotaphus* may be widely distributed throughout the plains of India. He with Tandon has also discovered a new species from Nainital, U. P.

#### *Physiology & Biochemistry :*

Banerjee, Singh and Bose have contributed two papers dealing with the mode of action and effect of starvation and pyrethrum on the efferent activity of the crural nerve and on cation concentration in nerve tissue of desert locust.

#### *Ecology & Behaviour :*

Irshad, Mazhar and Ghani have found mermithids in the grasshoppers associated with paddy mainly during the monsoon period or immediately after it and noticed that its prevalence was higher in the northern hills than in the plains and ranged from 1 to 7%. Roonwal has discussed the biological significance of polymorphism in grasshoppers and collected the field-data bringing to light the natural occurrence of a type of colour polymorphism, the green-brown polymorphism in several Acridoidea, in addition to other types which may exist simultaneously. Roonwal has studied the phadka grasshoppers with some

measures to combat this menace. Singh, C. and Singh, J. have described Rann of Kutch as a trap for the locusts. Tandon and Khera have furnished a detailed account of the climate and vegetation of Arunachal Pradesh with notes on habitat, abundance, distribution and seasonal occurrence of over 23 genera and trace families. They have also studied seasonal changes in colouration in some species and the impact of human activities on the ecology and distribution of grasshoppers.

#### Zoogeography :

Vasanth has highlighted the distinctive characters of the females of three species of crickets from North-Eastern India with notes on their distribution.

#### (vi) Dermaptera

#### Systematics :

Strivastava has discovered one new genus and three new species and provided a key for the identification of all the known Indian species of the genus *Epilabis*.

#### (vii) Dictyoptera

#### Physiology & Biochemistry :

Thatte and Tonapi have dealt with the effect of JH analogues on the rate of metabolism in the adult cockroaches.

#### Histology & Histochemistry :

Malhotra and Taneja have presented the results of the preliminary investigation involving histochemical localization of carbohydrates, total lipids, phospholipids and succinate dehydrogenase activity showing very high concentration of lipids and phospholipids in the important association and coordination centres in the cockroach brain.

#### (viii) Isoptera

#### Systematics :

Roonwal and Rathore have made a comprehensive study on the evolution and systematic significance of wing micro-sculpturing in termites and reported new types in the Kalotermitidae and Hodotermitidae.

#### Economic value & Control :

Parihar has made field observations on the nature and extent of damage by Indian desert termites and their control, while in the seventh series of this paper Sen-Sarma and Gupta have discussed the natural resistance of six Indian timbers to termites under laboratory conditions. Thakur has recorded termites as serious pests both in the field as well as in the trial plantations of poplars in the Bhabar-Tarai region of U. P.

#### Ecology & Behaviour :

Agarwal has studied the humidity reactions in a humidity gradient apparatus where all the experimental workers and soldiers of *Odontotermes microdentatus* and *O. obesus* were kept in an atmosphere of high humidity prior to their release in the apparatus. Roonwal has contributed three detailed papers on termites, particularly to show on the basis of the termite fauna of the N. W. Himalaya, that at least some of these termites have colonized fairly high altitudes entirely through association with human habitations. He has also highlighted new as well as known cases of the occurrence of intra-specific variations in mound-structure in termites in 19 species from various regions, e. g. Oriental, Australian, Ethiopian and Neotropical. Besides, in several cases some correlations, with ecological habit, have been shown to occur. He has also made some bioecological and economical observations on termites of Peninsular India. Thakur has given an account of

some significant changes in the ecology and distribution of termites in relation to recent human activities in the Himalayas.

*Faunistics & Zoogeography :*

Parihar has presented a note on some termites of Rajasthan desert. Roonwal and Bose have carried out detailed studies on vegetational distribution of termites of Rajasthan and their economic importance.

(ix) Psocoptera

*Systematics :*

New has contributed four detailed papers on the systematic studies of this Order. In one of the papers, he has provided a note on the Oriental species of *Trichadenotecnum* in addition to a list of Oriental species, out of which two have been described from Sri Lanka and a tentative key is given to separate them. He has also presented a note on some Oriental genera of Cerastipsocinae. Besides, females of *Clematoscenea* and *Dinopsocus* are described from Malaysia and relationship with other allied genera are briefly discussed with a preliminary key to genera. From the collections of Bhutan-Expedition in 1972, New has recorded 21 species of this Order from Bhutan, out of which nine species are new to science. *Psococerastis taprobanes* is redescribed from Sri Lankan specimens in detail and illustrated and compared with four other species including a new species of the above genus from Bhutan.

(x) Phthiraptera (Mallophaga)

*Systematics :*

A new species *M. ananthakrishnani* from specimens of the type-host (Aves) has been described by Rai from Shillong.

(xi) Anoplura (Siphunculata)

*Systematics :*

A new species of sucking lice has been illustrated and described from a rare species of swine from north-western Assam.

(xii) Hemiptera

*General :*

Das has prepared a list of coccids, so far recorded from various tea districts of north-eastern India.

*Systematics :*

A total of 41 new species have been described and five new genera are erected by different authors from various Indian States and neighbouring countries. The details are as follows :

Ananthasubramanian has provided taxonomic notes on a new species of *Gargara* from Madras and its immature stages. Bhat and Sreenivasan have reviewed and recorded a total of four species of bugs parasitising Chiroptera, out of which one species is a new record from India. Brookes has discovered a first record of the genus *Helio-coccus* on sugarcane in Pakistan in August, 1975. Chakrabarti and Maity have described two new species infesting grass roots from Simla, Himachal Pradesh and Mussoorie, Uttar Pradesh, a new subgenus and a new record from north-west Himalayas. Chakrabarti and Raychaudhuri have reported four new species from Nainital, Almora and Kausani (Uttar Pradesh) and recorded five other species, all from the Kumaon Himalayas, besides discussing systematic position of the new species. David has made a systematic study on a new species of *Aleurotuberculatus* from Kerala with a key to Indian species of the genus. Ghauri has contributed two detailed papers on the sub-order Heteroptera. In the first paper he has erected a new genus and provided a key to the species of the same and recorded five new species infesting fruits and forest trees in the sub-Himalayan region including Murree (Pakistan), Roorkee (U. P.), Simla (H. P.), North India and Kumaon (India). In the second commu-

nication, he has presented taxonomic notes on the mirids of Pakistan and northern India collected during a survey of the mirid fauna of the northern hills of the Indian subcontinent undertaken by the Commonwealth Institute of Biological Control in connection with their projects on the biological control of agricultural pests in temperate zones in addition to the description of two new genera and two new species. Ghosh has recorded one new species from Meghalaya besides two genera and four species as new records from Meghalaya, Manipur and Arunachal Pradesh. Muraleedharan has recorded the genus *Lasiochilus* for the first time from the Indian mainland and described a new species of the same genus from Madras. In the present communication he with Ananthkrishnan has dealt with ten species under eight genera belonging to the tribes Cardistethini and Almeidini, erected a new genus *Indocoris* and described two new species belonging to Cardistethini from Madras and Kerala. Raha and Raychaudhuri have described a new species from Kalimpong (W. Bengal). Rao and Ramakrishnan have made a taxonomical study in three different papers, describing three new species from Delhi under the family Ulopidae and four new species from Delhi, Srinagar, Assam, Shillong and Cherrapunji (both in Meghalaya) under the family Agallidae. Raychaudhuri, Pal and Ghosh have dealt with, in detail, root-infesting aphids reporting 14 species distributed over 7 genera including 7 species described as new to science from various regions of India i. e. Manipur, Sikkim, Kalimpong (W. B.) and Darjeeling (W. B.). Besides, descriptions of the little known species and necessary taxonomic notes have also been incorporated in the present paper. Raychaudhuri, D. N. and Roychoudhuri, D. have discovered a new species from Trivandrum, Kerala. While Sharma has described a new species from Jammu, Yasmeen

and Ahmad have given a detailed account of *Gibbosulus* group of *Tricentrus* with descriptions of four new species of the genus *Tricentrus* from Pakistan and Bangladesh.

#### *Physiology & Biochemistry :*

Ambiko and Prabhu have undertaken a detailed study of testis differentiation in the red cotton bug *D. cingulatus* to elucidate the probable mechanism involved in the hormonal control of differentiation of testis in this animal. Khan, Murtuza and Hashmi have evolved some methods that were evaluated in the laboratory in Pakistan for preparing permanent slides of haemocytes of adults of *D. koenigii* and for counting haemocytes in samples of haemolymph.

#### *Cytology :*

Kurl and Narang have devised an air-dry method for cytological preparations of aphids.

#### *Biology :*

Muraleedharan and Ananthkrishnan have made an attempt to provide a comparative study on some of the aspects of the biology of four species of Anthocoridae occupying different niches and feeding mainly on thrips.

#### *Economic value & Control :*

Agarwal and Kushwaha have dealt with the efficacy of insecticidal control schedules against aphids and jassids on tomato. Chander and Verma have discussed insect pest problems in peaches and evolved measures to combat this menace. Kakar and Dogra have conducted studies on the incidence and control of mustard aphids *vis-a-vis* economics of different spray schedules on mustard. The natural enemies of brown plant hopper and green leafhopper during outbreaks of these species on rice in several localities in Mandya (Karnataka) in 1976 were studied by Manju-

nath, Rai and Gowda. Misra has given an account of plant resistance to insect pests of paddy and its status in pest management. Natarajan has studied the chemical control of jassids and thrips in cotton. While Pal and Raychaudhuri have presented a note on the aphids infesting subaerial parts of grasses and sedges in north-east India, Rao and Ayyanna have discussed the effect of insecticides on aphids, jassids and shoot borer on Okra. Sethi, Prasad and Singh have dealt with the incidence of insect pests on different varieties of sunflower. Singh and Misra have made an observation on the effect of some insecticides on aphid population and the yield of potato crop.

#### *Ecology & Behaviour :*

Goel has discussed two years of biostatistical data on the abundance of this Order, and the abiotic factors responsible for the control of their fluctuations in the tropical zone i. e. in western U. P. of India. Pal, Rao and Kushwaha have presented a note on the pest fluctuations in relation to weather elements on eight varieties of moong.

#### *Parasitology & Pathology :*

Mahdihassan has presented the detailed results of an intensive study on the cell contents of mangohopper (a common pest of mango in the Indian subcontinent) made in the context of a search for possible pathological cell inclusions. Manjunath, Rai and Gowda have recorded, during Mandya survey in 1976, some natural enemies on the rice brown-planthopper.

#### *Faunistics & Zoogeography :*

Basu and Mitra have reported new records of Coraidae from Sikkim. Hayashi has recorded ten species of Cicadidae for the first time from Bhutan from the collections of Bhutan-Expedition in 1972.

### (xiii) Thysanoptera

#### *Systematics :*

Ananthkrishnan in a monographic work has provided a very comprehensive information on the geographic distribution of thrips galls as well as aspect of ecology dealing with gall association and the degree of intraspecific diversity in gall thrips. This is followed by detailed accounts of the comparative morphology of some major thrip-galls, keys to the principal types of thrips galls as well as the gall forming genera of the world. He with Varadarasan has discovered three new species and one new subspecies along with a key for *Phorinothrips* species from different regions of India, e. g., Peermedu and Thekkadi (Kerala). Coorg (Karnataka) and Ranchi (Bihar). Bhatti has contributed five extensive and very informative papers towards furthering our knowledge of the study of taxonomy of this Order. In the first paper, he has erected a new genus in addition to several species having been placed as new combination and new synonyms proposed. In the second paper, he has revalidated the genus *Taeniothrips* and treated 135 species, of which 85 have been reallocated to other genera and 11 to *Taeniothrips*, described three genera as new to science and proposed several new synonyms and new combinations. In his third paper, he has made systematic studies on the genus *Rhamphothrips* and redefined to include 10 species, of which 6 are from the Oriental Region and 4 from the Ethiopian Region, besides providing a tentative key for separation of the species. He has also described four new species from various States of India, i. e. Mussorie (U. P.), Sibpur (W. B.), Tumkur (Karnataka) and Hoshiarpur (Punjab). In his fifth paper, he has reported two new genera and the characteristics of *Dolichothrips* and *Dolicholepta* and the species included under them are discussed. Muraleedharan and Sen have erected a new subgenus under

the genus *Crotonothrips* and described two new species from N. E. India, *i. e.*, Cachar (Assam) and Darjeeling (W. Bengal).

*Ecology & Behaviour :*

Ananthkrishnan has made some observations and discussed the influence of deforestation and introduction of new plantation crops in many areas of Western Ghats on the mycophagous and cecidogenous or cecidicole thrips alongwith the changes in the colonization of other species consequent on the disturbances in the forest ecosystem.

*Economic value & Control :*

Ananthkrishnan has discussed thrips damage, in recent years, to several plants of economic importance which has become a source of increasing concern to many an agriculturist.

*Faunistics :*

Ananthkrishnan and Thirumalai have studied population fluctuations of three species of Anthophilous Thysanoptera.

(xiv) Coleoptera

*General :*

Bakhetia and Sukhija have given a brief account of the research work done on the control of white grubs, being a serious pest of field crops, with different insecticides in Punjab. Karunaratna has dealt with the dung beetle.

*Systematics :*

A total of 207 new species, eight new subspecies, eleven new genera and three new subgenera have been described by different authors from various Indian states and neighbouring countries. The details are as follows :

Detailed descriptions of the final instar larvae of 36 species have been included in the

present study undertaken by Arora, G. L. in addition to the presentation of larval keys to the subfamilies, genera and species of Bruchidae from north-west India. Basu and Sengupta have reported two new species from W. Bengal, Tamil Nadu and Orissa. Beaver and Browne have dealt with the Scolytidae and Platypodidae of Penang, Malaysia and compared its zoogeographical distribution with the species of the same families from northern India and other regions. Bell has erected one new genus and described three new species, one from West Almora district and two from Bhutan, out of the collections made from Bhutan-Expedition in 1972. Besuchet has reported two new species from Bhutan and Darjeeling from the collections of Bhutan-Expedition in 1972. Coiffait has contributed two comprehensive papers dealing with the collections made during Bhutan-Expedition in 1972. While in the first paper he has described 27 new species, in the second paper, out of 73 species collected, 30 species, three genera and one subgenus were reported as new to science, all from Bhutan and belonging to the family Staphylinidae. Daccordi has recorded a new species from Bhutan from the collections of Bhutan-Expedition (1972). While Decelle has listed 16 species from the collections of Bhutan-Expedition of 1972 describing seven species as new to science from Bhutan, Bihar and W. Bengal, Espanol has discussed nine genera and nine species with descriptions of one new genus and four new species, all from Bhutan and from the collections of Bhutan-Expedition of 1972. Heinertz, in his two papers, has given an account of the family Carabidae and has discovered three new species and one new subspecies of the family from Pakistan and Nepal. Holzschuh has listed 17 species from the collections of Bhutan-Expedition (1972) out of which two species are new to science. Jelinek has dealt

with 31 species of Nitidulidae, all new records from the collections of Bhutan-Expedition of 1972, out of which 19 species are described as new to science from Bhutan, while Johnson has recorded 10 species from the collections of same expedition, out of which four are described as new to science from Bhutan. Kimoto has listed 106 species from the collections of Bhutan-Expedition (1972) out of which 28 species and one subspecies are reported as new to science from Bhutan. Lobl has discovered four new species from Bhutan and Darjeeling (W. Bengal) from the collections of the same expedition. Mandl Karl has contributed two papers in which he has described five new species and three new subspecies belonging to the family Carabidae from Bhutan and Nepal. Mateu has described four new species from the collections of Bhutan-Expeditions of 1972 from Bhutan. While Morvan has reported nine new species and one new genus from Bhutan, Mukhopadhyay and Sengupta have recorded seven species from Bhutan, U. P. and W. Bengal, out of which 2 species are described as new to science from Nainital (U. P.) and W. Bengal, all from the collections of Bhutan-Expedition of 1972. Rai has studied the morphology and taxonomy of Indian Bostrychidae with description of one new species from Dhariwal (Punjab). While Sato has described three new species from Bhutan, Schawaller, while dealing with the family Silphidae in his two communications, has erected a new genus and reported a new species, all from the collections of Bhutan-Expedition of 1972. Sengupta has presented five papers dealing with various aspects of taxonomy of this order. He has discovered the family Propalticidae with description of a new species from Sikkim, erected a new genus with descriptions of two new species of the genus from Darjeeling (W. Bengal) and Himachal Pradesh and reported three new

species from Bhutan from the collections of Bhutan-Expedition (1972). He with Mukhopadhyay has also established a new genus *Heterojinus* for the species *Laemophloeus semi-laetaneus* and its taxonomic position is discussed. Singh and Saini have recorded three new species of Bruchidae from Punjab. While Smetana has reported two new species from Bhutan, Stebnicka has established two new species from Bhutan and Manali (H. P.), all from the collections of Bhutan-Expedition (1972). Ueno has described four new species and erected one new genus from Bhutan from the collections of Bhutan-Expedition (1972). Wittmer has made a very comprehensive taxonomical study on this order pertaining to the families Cantharidae and Malachitidae from the collections of Bhutan-Expedition (1972) and contributed four detailed papers on the subject. He has given an account of 39 species as new records from various regions of India and neighbouring countries, erected two new genera and one new subgenus and described 32 new species and two new subspecies from different parts of India and adjacent countries such as Assam, Manipur, Kanara (Karnataka), Nilgiri Hills (Tamil Nadu), Bhutan, Bangladesh, Burma, W. Bengal, Uttar Pradesh, Himachal Pradesh, Nepal, Simla (H. P.), Kashmir, Ladakh, Lopchu (W. Bengal) and Raman (W. Bengal). He with Brancucci, in his detailed paper, has also presented the result of his investigation in the tribe Malthinini under the family Cantharidae of the Indo-Malaysian Region and one new genus and four new species are reported by Wittmer from Darjeeling (W. Bengal) and Nepal whereas one new subgenus and four new species are established from Darjeeling (W. Bengal) by Brancucci.

#### *Morphology & Anatomy :*

Singh has made extensive morphological studies on the reproductive glands of the

family Bruchidae and has furnished two papers in this regard. While in one paper, he has discussed the male accessory glands of 39 Indian species of nine genera, the other work is a comparative study on the morphology of reproductive system of 19 species of the genus *Bruchidius* and to assess the value of higher taxonomic characters. Vats has studied malpighian tubules in the larvae of family Bruchidae and discussed the larvae of the genus *Bruchidius* in his two communications.

#### Cytology :

Yadav and Pillai have made studies on the classical cytotaxonomy of *Trox* based on the structure and behaviour of chromosomes.

#### Economic value & Control :

Bhatnagar and Hussain, in two detailed papers, have undertaken the study on laboratory screening and on the bio-efficacy of various granular insecticides against grubs of *Holotrichia consanguinea* keeping in view its economic status on maize, sorghum and sugarcane. Chandra *et al.* have dealt with the efficacy of some selected fumigants tested against one, three and five weeks old adults of *Sitophilus oryzae*. Chari and Patel have devised some methods of control of rove beetles in tobacco nursery. Chaudhury and Kapil have made an observation on the mating competitiveness of thiotepa treated males of *Trogoderma granarium* and impact of sterile male releases on the reduction of normal population. They have also undertaken the study of sex-specificity of some alkylating compounds on chemosterilization of the same species. Dhari *et al.* have discussed the effect of emulsifiers on the toxicity of some insecticides to the adults of rice weevil, *S. oryzae*. Dutt and Ghatak have endeavoured to study in detail the dose-mortality response of the jute stem weevil, *Apion corchori* to apholate and metepa. Lal has

given an account of the bioassay for standardisation and quality control of pesticide formulations. Roonwal has made a revision of his recent work on the biology, ecology and control of the Sal Heartwood-Borer, *Hoplocerambyx spinicornis* as it is regarded as potentially the most serious pest of Indian forestry. Sengupta *et al.* have made studies on the taxonomy, biology and control of the economic species of *Cryptolestes* and a key to the pest species of the genus is also provided. Singh, R. N. and Singh, K. M. have dealt with the succession and pest complex of redgram in a set of agroclimatic condition affecting the entire spectrum. An investigation was undertaken by Varma and Pandey to find out an effective, cheap and readily available material to protect the seed of green gram from the attack of the pulse beetle. The study by Veeresh shows that the presence of adult preferred hosts, increased irrigation facilities, standing crops at the time of egg laying which gives no scope to expose the grubs for predation and elimination of natural enemies due to cultivation practises have all contributed for the abundance of white grubs in any locality. An investigation was conducted by Verma and Lal to find out the residues and residual toxicity of phorate, carbaryl and monocrotophos against the pests of cowpea crop. Yadava *et al.* have undertaken the studies on various aspects of biology, behaviour and control of white grub since it has become a very serious problem and has made practically impossible to grow crops like groundnut in many parts of of the country.

#### Ecology & Behaviour :

The present study was conducted by Bhalodia *et al.* and the information derived from it was utilised for taking appropriate prophylactic measures against the particular grub. Dutt and Dalapati have dealt with, in

detail, dormancy in red pumpkin beetle. Samalo and Mahendranath have made an observation on the effect of various food substances on longevity and fecundity of some lady-bird beetles. Tayade has discussed the bionomics and the effect of constant temperatures on larval period inside the cocoons and pupal period of *Sagra femorata*.

#### *Biology & Development :*

The results of the observations, by Dhaliwal and Singh are reported during 1976 and 1977 on the white grubs, as these root grubs have assumed now the status of national pest in India during the last two decades. Rao has carried out preliminary studies during 1975-1977 and reported the observations made on the biology of cigarette beetle on wrapper tobacco at Tobacco Research Station, Dinhat. The present study by Yadav and Pant was based on the mean developmental period, quantity of food consumed by bruchids and loss in weight of seeds.

#### *Faunistics & Zoogeography :*

According to Abraham and Rajendran, though the white grub is a serious problem in Kerala, in certain endemic areas they cause severe damage to the cultivated perennial and annual crops. Arora and Singal have dealt with the incidence and abundance of *Bruchidius* with the descriptions of 19 species of the same collected from Tamil Nadu, Goa, Kerala, Karnataka, Pondicherry and Bombay. Chujo has recorded six species for the first time from Bhutan from the collections of Bhutan-Expedition of 1972. Pajni and Chhibba have presented a report on Curculionidae of Chandigarh, while Pal has dealt with the relative abundance of scarabaeid beetles on light trap. Saha *et al.* have made an observation on the family Rhysodidae from Himachal Pradesh.

#### *Pathology :*

Patel *et al.* and Vora *et al.* have made studies on the milky disease in white grubs, *Holotrichia consanguinea*.

#### (xv) Strepsiptera

##### *Systematics :*

Chaudhuri *et al.* have described a new species from Arunachal Pradesh.

#### (xvi) Siphonaptera

##### *Parasitology :*

Mitchel and Dick have made extensive studies on the ectoparasites from Nepal birds and collected 152 species of parasite-species belonging to different orders such as Mallophaga, Acarina, Diptera and Anoplura from 78 birds, during the period from 1966 to 1972.

#### (xvii) Diptera

##### *Systematics :*

Cherian has reported the genus *Platycephala* for the first time from India and has described two new species of the same from Karnataka and W. Bengal. Cook has made a detailed observation and collection of Scaptosidae of Nepal, out of which he has erected a new genus and described ten new species from various parts of Nepal such as Pulchauki, Godavari (Kathmandu), Adhavar and Birganj. Dutta and Das have recorded three new species of the genus *Tabanus* from Arunachal Pradesh and the tabanid fauna of the State have also been reviewed. Deonier has described and illustrated five new species of *Hytrelia* from different parts of Pakistan such as Hassanabdal, Misriot Dam near Rawalpindi, Warsak and Jhelum. All the new species were reared from aquatic macrophytes at the Commonwealth Institute of Biological Control in Pakistan. Gupta and Singh have presented a paper recording 458

individuals representing nine drosophilid species from different places near Kurseong about 35 miles from Darjeeling at an elevation of about 5500 feet above sea-level and have established two new and two unrecorded species of *Drosophila* from the same place. Joseph has contributed two detailed papers in which he has made an observation on 25 species of Eriopterini and reexamined and illustrated seven genera of the tribe. He with Parui has also discovered a new species from Garo Hills and provided a key to Indian species of the genus *Spaniocelyphus*. Kapoor *et al.* have made a detailed collection of bombyliids from Bangalore (Karnataka) and Pusa (Bihar) and out of this they have erected one new genus and five new species. Besides, two species as new records for the first time from India and 19 known species' distribution and synonyms are reported here. Nandi has discussed twelve species of sarcophagids under seven genera from the collections of F. R. I., Dehra Dun, and has established two new species from Zigon Division (Gamon Reserve Forest, Burma) and Digha (W. Bengal). Prakash and Reddy have reported a new species from Karnataka. Sharma and Rao have reported in this contribution the description of a new genus and a new species accommodating midges reared from the stem galls of *Achyranthus aspera* in the Marathwada University Campus, Aurangabad. Sinharay *et al.* have made detailed studies on Orthocladiinae of India and described two new species from Pankhabari and Lebong (W. Bengal).

#### *Morphology & Anatomy :*

Kumar, in his two papers, has contributed elaborately to the study of functional morphology of the reproductive organs of the male and female *S. hearseiana*. Zakaur Rub, in his two papers, has made detailed observations on the skeleto-muscular mechanism of the cephalopharyngeal skeleton and on the

tracheal system of the mature and third instar larva of the melon fly.

#### *Cytology & Cytochemistry :*

Kaul and Tewari have reported the first evidence of chromosomal polymorphism in the species of *Parasarcophaga* during a comparative study of mitotic and polytene chromosomes. Sharma *et al.* have furnished a preliminary map of the salivary gland chromosomes of *Aedes aegypti*. In the present paper, Sharma *et al.* have dealt with the morphological mutants of *C. megacephala* obtained not only from the laboratory cultures but also on exposure to the rays during the time of lunar and solar eclipses.

#### *Physiology & Biochemistry :*

Narayana has made studies on silica deposition in sorghum seedlings with reference to shoot fly resistance. Srivastava *et al.* have discussed vitamin B requirement of *Dacus cucurbitae* maggots.

#### *Ecology & Behaviour :*

Modi *et al.* have made an observation on the distribution and adult habitats of phlebotomid sandflies from Maharashtra. A total of 18873 mosquitoes comprising 18 species in four genera were collected during a series of 12 monthly all-night collections on bovid baits near the village of Sattoki, Punjab (Pakistan) and their biting rhythms have been studied and discussed in detail by Reisen and Aslam Khan. Reisen with Boreham has performed a short term survey of host-selection patterns of mosquitoes (including two species of *Aedes*, six of *Anopheles*, five of *Culex* and one of *Mansonia*) near the village of Sattoki in Lahore district of Punjab (Pakistan) in September and October 1975, using serological techniques. The most prevalent host was found to be bovines (85.5%). Reuben *et al.* have furnished the results of their

studies showing that egg-laying in *Aedes* species, predominant among them being *A. aegypti*, was minimal during the winter months, but began rising in April. The biology and behaviour of the syrphid flies have been studied by Roy and Basu under laboratory conditions and the results have been reported here. Yadav *et al.* have discussed the Order Diptera, in detail, under two widely different agroclimatic conditions and soil types of Rajasthan.

#### *Economic value & Control :*

Joshi *et al.* have made a detailed observation on the laboratory and field evaluation of natural and synthetic garlic extracts as mosquito larvicide. Kulkarni and Jotwani have discussed the efficacy of 8 different insecticides spray formulations which were tested against sorghum shoot fly and dealt with carbofuran seed treatment also to control it. Narayana *et al.* have provided the result for three seasons confirming the effectiveness of granular insecticides in controlling the shoot fly. Rahman *et al.* have made studies, in detail, on the possible methods of the control of *Culex triataeniorhynchus* in U. P. by chemicals and larvivoracious fishes. Roy *et al.* have presented the findings of susceptibility tests carried out on the larvae and adults of *A. stephensi* from 13 urban areas of Tamil Nadu and one area of Bangalore. Shukla has studied the effects of the bait by subjecting the flies to the bait in succeeding generations of laboratory selection. Wadhvani and Khan have studied all the known methods of insect control and recommendations for the control of melonfly.

#### *Biology & Development :*

Ansari *et al.* have given an account of mass rearing procedures for *A. stephensi*. Reuben *et al.* have developed a sampling programme for estimating the daily emergence

of *Aedes aegypti*, in the town of Sonepat from direct counts of pupae in houses.

#### *Genetics :*

Rodrigues and Siddiqi have made extensive studies on behavioural genetics in *Drosophila melanogaster*.

#### *Faunistics & Zoogeography :*

Datta has undertaken a survey of Simuliidae of Sikkim and six species are recorded as new from the region. A total of 71 females of *A. varuna* were captured in 17 villages of Bastar district, M. P. out of 105 surveyed for the study by Husainy. Ipe has attempted to analyse the distributional patterns of Indian Agromyzidae and out of the 26 genera known 19 have been recorded from India. Kulkarni *et al.* have conducted a survey of various indoor and outdoor habitats in the western Himalayan region and hill districts of West Bengal between 1966 and 1970 from where 13 species of Phlebotomid sandflies were collected and the geographical distribution of these species was also furnished. Modi *et al.* have made extensive studies on Phlebotomid sandflies of Poona. Kulshrestha has summarized the results of recent collection tours, particularly for the family Chironomidae, undertaken in the Beas River ecosystem before the construction of the Pandoh Dam. Mahadev *et al.* have carried out a survey of *A. aegypti* in order to study extensively its distribution and relative prevalence during dry (December to May) and wet (June to November) seasons. They have also made a comprehensive study on the seasonal prevalences and host preferences of the suspected and proven mosquito vectors of Japanese encephalitis virus from the mosquitoes collected from Bankura district, W. Bengal. Prakash and Reddy have made a detailed investigation into the ecology, distribution and systematics of *Drosophila* fauna from a part of Peninsular India i. e. Western Ghats.

*Parasitology & Pathology :*

Daschudhuri has reviewed research on mosquito including diseases and the factors. Khan and Patnaik have reported the results of their studies on the population dynamics of muscid flies associated with buffaloes.

## (xviii) Lepidoptera

*General :*

Chaturvedi has made general observations on the Death's Head Moth of the family Sphingidae.

*Systematics :*

Diakonoff has discussed Tortricidae and Carposinidae collected during Bhutan-Expedition of 1972, and has discovered a new species from Bhutan. Pajni and Rose while revising *Pagyda* (Pyraustidae) revalidated *Synelera* Lederer and described a new species from Solan. Rose and Pajni commented on the systematics of the genus *Tamraca* Moore and described a new species from Chandigarh. Yadava discovered from a Pyralid species, *Cnaphalocrocis medinalis*, a new egg parasite.

*Physiology & Biochemistry :*

While Bhat and Bhattacharya have dealt with the consumption and utilization of Soybean in *Spodoptera litura* (Fabricius), the species has also been studied particularly for utilization of lipids by Chibber *et al.*; effect of certain insect growth regulators by Devaraj and Narasimhan; nuclear polyhedrosis virus by Narayanan and Jayaraj; and effect of altsid on the blood proteins by Sundaramurthy and Ahmed.

While Chakrabarti and Medda have studied the effect of Potassium iodide and Cobalt chloride on the silkworm moth *Bombyx mori* L., particularly nistri race; Majumdar and Medda have studied the effect of ligation on the metamorphosis of the same species.

Gowda and Ramaiah have also dealt with the isolation and crystallization of metallopeptide from the ovary of *Bombyx mori*.

Alkaline phosphatase activity in pupal stages of *Earias vitella* Fab. and fifth instar larva of *Utetheisa pulchella* Linn., have been studied respectively by Choudhuri *et al.*, and Khatoon & Khan.

While Pant *et al.* have made studies of Tri- and Di-acylglycerol hydrolases and some esterases in *Philosamia ricini*, Pant and Kumar have studied the total, free and esterified sterols in head part of *Antheraea mylitta* during larval development. While Pant, with Kumar & Dubey has made comparative studies on acetylcholine and acetylcholinesterase during development in *Philosamia ricini*, with Pandey he has studied the occurrence of ascorbic acid in the same species. Pant and Unni have made biochemical studies on *Philosamia ricini* and amino acid composition of fibres of several silkworm species, including *Philosamia ricini*, *Antheraea mylitta* and *Attacus atlas*.

Ramakrishnan and Raghavan have studied the changes in the levels of amino acids in the developing *Corcyra cephalonica* Stainton. Sukumar and Naidu have studied the effect of chemosterilants on the male reproductive system in *Achoea janata*. Verma, Singh and Agarwal have studied the physiology of digestion in mature larva of *Sylepta, derogata* Fabr.

*Morphology & Development :*

Deshmukh *et al.* have studied the effect of temperature and larval food on the width of head capsule of *Diacrisia obliqua* Walker. Gupta has made studies on *Earias fabia* Stoll, particularly with reference to coremata and the differentiation of sex in pupae. Poonia has studied food utilization and rate of growth during development in

*Philosamia ricini*. Zakaur Rub has made studies on the morphology of head of mature larva of live butterfly *Papilio demoleus* Linn.

#### Ecology & Behaviour :

Chaudhury recorded a Tortricid moth *Bactra minima* Meyrick on nutgrass for the first time. Katiyar studied the impact of sequence of flowering on the incidence of bollworms in some varieties of cotton, and later Katiyar and Butani have studied the incidence of bollworms *vis-a-vis* development of cotton balls. Larsen has studied the migratory behaviour in butterflies in Nilgiri Hills of southern India. While Mehra and Saha have studied the bionomics of *Amsacta lactinea* Cramer, Verma and Gokhale have reared *Spodoptera litura* Fabr. on simple semi-synthetic medium, with varying concentration of antimicrobial agents.

#### Economic value & Control :

Attri *et al.* have studied efficacy and residues of phenthoate for the control of fruit borer, *Heliothis armigera* Hubner.

Isahaque made observations on bionomics of a potato pest *Phthorimaea operculella* (Zeller) in Assam. While Jacob *et al.* studied nuclear polyhedrosis virus from rice case worm *Nymphula depunctalis* (Guen.) as a microbiological control factor, Kamal *et al.* made studies on entomogenous fungus for the control of castor semi-looper. While Nayak & Srivastava studied a new bacterial disease of green-horned caterpillar of rice, Rajamohan & Jayaraj studied field efficacy of *Bacillus thuringiensis* and other insecticides against cabbaged pests, and Saikia & Subba Rao recorded Ichneumonid parasite from Muga silkmoth, *Cricula, trifenestrata* Helfer. Varshney, R. K. dealt with butterflies as pests of food plants.

Studies on chemical control by using various insecticides were made on several

lepidopterous species. Particular mention may be made of the cotton bollworms by Banerjee & Katiyar, Gaikwad & Deshpande, and Sidhu & Dhawan; Bihar Hairy caterpillars *Amsacta lineola* Fabricius by Bhardwaj & Kushwaha, and *Diacrisia obliqua* Walker by Grewal *et al.* and Yadav *et al.*; *Bombyx mori* L. by Kariappa & Narasimhanna; Podborers by Krishnaiah *et al.*; *Achoea jxnata* L. by Kushwaha & Pal; Brinjal shoot and fruit borer, *Leucinodes orbonalis* Guen by Mote, and Nath & Chakraborty; Black head caterpillar *Nephantis serinopa* Meyr. by Nadarajan & Channabasavanna; cutworm-*Agrotis spinifera* Hub. by Noor & Pareek; *Stomopteryx subsecivella* Zell. by Palaniswamy & Ramachandran and Sandhu; *Crocidolomia binotalis* Zell. by Singh O. P. & Rawat; Teak skeletoniser, *Pyrausta machaeralis* Walker and *Atteva fabriciella* Swed. by Singh, P. & Gupta; citrus butterfly, *Papilio demoleus* L. by Singh & Rao; Sesamum pod borer, *Antigastra catalaunalis* (Dupon.) by Srivastava & Dixit, and Yadav & Lal; and Rice Skipper, *Pelopidas mathias* F. by Vyas *et al.*

Avasthi, Chandra and Tiwari have studied efficacy of dipterous parasite against sugarcane borer, *Chilo auricilius* Dudgeon. While Dubey *et al.* have dealt with the major borers of sugarcane in Madhya Pradesh and their control, Kumaresan, Regupathy and George have dealt with stem borer of cardamom. Further, Noor and Pareek studied effect of some insecticidal treatments on control of stem borers on maize in general.

While chemical control of sugarcane seedling borer *Chilo infuscatellus* Snellen was studied by Govindan, Sastry and Usman, various aspects of studies were made in case of another stem borer-*Chilo partellus* (Swinhoe) particularly with reference to its management through use of resistance varieties and chemical control by Jotwani *et al.*;

studies of residual toxicity by Marwaha and Sarup; chemical control by Mathur & Rawat and Vaishampayan & Veda; management under resource constraints by Sarup *et al.*

Relative efficacy of several insecticides, viruses etc., have been studied to control tobacco caterpillar—*Spodoptera litura* Fabr., particularly by Balasubramanian and Ali; by Joshi *et al.* by using neem kernel and other antifeedants; by Komolpith and Ramakrishnan by using baculovirus and insecticides; by Rao for the chemical control; and Santharam *et al.* with the use of nuclear polyhedrosis. Singh & Sarup studied the relationship between wettable powder and other conventional formulations for its control.

#### Biology & Development :

While Bilapate provided life tables for the castor capsule borer, *Dichocrocis punctiferalis* Guen. on different hosts, with Pawar and Pawar & Raodeo he had provided life tables for *Heliothis armigera* Hubner. Chand and Sehgal studied the sensitivity of *Corcyra cephalonica* eggs to gamma radiation, particularly to their age and hatchability. Chakravorty & Mandal studied growth trends in larvae of butterfly species, *Catopsilia pyranthe* (Linn.). While the biology of an apple pest, *Moma champa* Moore, in Himachal Pradesh was studied by Chander, that of cotton bud-moth, *Phycita infusella* Meyr. and serious cashew pest, *Theilassodes* sp. were studied by Prabha *et al.* and Rao *et al.*, respectively. Hashmat & Khan studied the fecundity and fertility of *Spodoptera litura* Fabr., whereas the same species was studied by Vaish & Agrawal for their host preference and growth index. Islam & Haque conducted an experiment of rearing *Leucinodes orbonalis* Guen. on artificial diet.

Experiments were conducted on silkworm, *Bombyx mori* L. particularly with reference to effect of mating on viability by Jadhav & Gajare, and effect of light and darkness on its behaviour by Narayana *et al.*

Joshi studied larval casts and formation of pupae in *Sitotroga cerealella* (Olivier). While Krishnaprasad & Rai studied effect of different host plants on the life cycle of pumpkin leaf caterpillar—*Margaronia indica* Saund., Sharma *et al.* studied host preference in *Corcyra cephalonica* and *Ephesthia cautella*. Several other species where biological, reproductive and developmental observations were made are mainly as follows: Potato tuber moth, *Gnorimoschema operculella* Zell., by Mahajan & Mogal; Bagworm, *Clania crameri* Westwood by Mishra; *Atteva fabricella* Saund. by Murthy & Chattoraj, particularly on their sex pheromone; *Heliothis armigera* Hubner by Nikam & Basarkar; *Diacrisia obliqua* Wlk. by Rathore & Sachan; brain development in *Corcyra cephalonica* Stainton by Satija & Khullar; *Earias vitella* Fabr. on cotton and okra by Senapati *et al.*; rearing of *Chilo partellus* (Swinhoe) on artificial diet by Sharma & Sarup and Siddiqui & Sarup; and *Sitotroga cerealella* Oliv. by Sundararajan.

#### Cytology :

Datta, Sengupta and Das studied the induction of dominant lethals in male germ cells of mulberry silkworm, *Bombyx mori* L. Jolly *et al.* made studies on the chromosome number in *Antheraea sivalica* Moore. Nayak studied supernumerary 'm' chromosomes in two species, *Phycodes radiata* Och. at Bhubaneswar and *Zetides doson* Linn. at Cuttack.

#### Histology & Histochemistry :

Agrawal & Saxena studied the histochemistry of male germ cells of a butterfly—*Danais chrysippus* Linn. While Gawanade *et al.* made

histological studies on *Heliothis armigera* Hubner, Sharma & Mann made similar studies on *H. zea*.

#### Faunistics & Zoogeography :

While Dufay dealt with the Noctuid fauna particularly Plusiinae of Bhutan, collected during Bhutan-Expedition in 1972, Steiniger & Eitschberger dealt with the Lycaenidae of the same Expedition from Bhutan. While Gunawardana dealt with butterfly-fauna of Sri Lanka, Iqbal dealt with butterflies of districts Rawalpindi and Islamabad, in Pakistan. Narendran *et al.* reported field incidence of *Nephantis serinopa* from the Malabar area in Kerala.

#### Parasitology & Pathology :

While Chhabra and Singh have recorded a new braconid parasite from rice skipper, *Parnara mathias* Fabr., Thontadarya *et al.* have recorded *Trichogramma australicum* from *Heliothis armigera* Hubner, infesting bhendi.

Kumar used application technique and studied effect of thiotepa on chemosterilization of *Sesamia inferens* (Walker). Narayanan *et al.* have studied nuclear polyhedrosis virus of *Amsacta albistriga* (Walker). Nayak & Srivastava studied the new fungal disease in green-horned caterpillar. Singh, K. has studied cross infectivity of polyhedrosis and microsporidiosis between *Bombyx mori* L. and *Diacrisia obliqua* Walker.

#### (xix) Trichoptera

##### Morphology :

Satiya studied the morphology of alimentary canal and mouth parts of larvae with reference to their food and feeding habits.

#### (xx) Hymenoptera

##### General :

Saini & Dhillon referred to antennae cleaning apparatus while commenting on its

evolutionary trends in Hymenoptera. Sakagami reported stingless bees of *Tetragonula* of continental Asia and Sri Lanka. Saha has made observations on bee-keeping in Kashmir.

##### Systematics :

About eighty new taxa have been described from various areas of India, Bhutan, Nepal, Burma and Sri Lanka, particularly of Braconidae, Chalcididae, Encyrtidae, Formicidae, Ichneumonidae, Platygasteridae, Pteromalidae, Scelionidae, and Trichogrammatidae. These are briefly as follows. While Bhat referred to the systematics of the genus *Idiasta* Foerster (Braconidae) from India and reported four new species, Sharma made taxonomic studies on Indian Braconidae and described five new species under four genera.

While Boucek reported two pteromalid genera from Oriental region, Boucek, Subba Rao and Farooqi gave a preliminary review of Pteromalidae of India and adjacent countries.

Chandra referred to the Oriental species of *Ichnoceras* and *Odontocolon* of the family Ichneumonidae. While Gupta, S. and Saxena separately discovered, respectively, the genera *Echthrus* and *Neodontocryptus* from India, Gupta, V.K. and Gupta, S. made further taxonomic studies on Ichneumonid genus *Dihelus* from the Oriental as well as Palaearctic regions.

While Hayat reported on the type of *Epitetracnemus quadriguttatus* Girault, Hayat & Verma referred to Indian species of *Heligonatopus* and *Parasyrphagus*, and described a new genus and two new species of Encyrtidae from India. Subba Rao & Hayat reported on the genus *Scelioencyrtus* Girault, also of Encyrtidae and described a new genus. While Khan and Shafee gave a revised classification

of the chalcidoid family Aphelinidae, Saraswat referred to a small collection of chalcid collection from India.

Krombein made biosystematic studies on Ceylonese wasps, particularly their life history, nests and associates.

Mukherjee made taxonomic studies on Indian proctotrupoids, particularly Scelionidae and Platygastriidae and reported 22 new taxa from various parts of India. Saraswat and Sharma reported on some Scelionidae from India and brought to light 17 new species from India.

While Nagaraja made studies on *Trichogrammatoidea* genus and reported six new species, Pajni & Singh, T. provided a note on the taxonomic position of an egg parasite *Uscana mukherjii* (Mani).

While Shujaiddin brought to light a new record of Aphidiidae genus *Adialytus* from India, with comments on latter's validity, Sary & Bhagat gave records and description of aphid parasites including new taxa (Aphidiidae) from Kashmir, and Sary and Raychaudhuri described a new aphidiid of the genus *Trioxys* from India (W. B.).

Urbani made taxonomic studies on Formicidae collections, and referred to about 35 species from Bhutan, Nepal, Sri Lanka and India, out of which five taxa are reported to be new to science.

#### Biochemistry :

Varma studied amino acid and sugar composition of the silk of weaver ants, *Oecophylla*.

#### Morphology :

Saini & Dhillon referred to structural modifications pertaining to mesopostnotum and epimeropostnotal bridge.

#### Ecology :

Naim and Phadke have referred to bee-flora and the seasonal activity of *Apis cerana indica* in Bihar. Rao & Seethalakshmi referred to honey-bee foraging on paddy. Shah, F. A. and Shah T. A. have presented a note on bee activity and bee-flora of Kashmir. Sudhakar *et al.* have made studies on anti-feeding property of some indigenous plants against mustard saw fly.

#### Economic value & Control :

Abdurahiman & Joseph reported cleptoparasitism of the fig-wasps in *Ficus* sp. While Grewal & Siddhu referred to the insect pollinators of some cucurbits in Punjab, Mishra *et al.* made some observations on insect pollinators of apple.

Mahindra observed that bees help to increase vegetable seed-production in Kashmir. While Palanichamy referred to bee keeping as a business, Thakar referred to bee-keeping technology—its pace and plans.

Phadke observed the role of honey bee in seed production, particularly in relation to use of insecticides. Prasad & Nigam studied relative and residual toxicity of some insecticides against *Athalia* sp. Sarkate *et al.* presented a note on the recovery of *Chelonus blackburni* Cameron, a braconid egg-larval parasite of a lepidopterous bollworm pest on cotton. Varma observed the growth of population of *Trichogramma brasiliensis* Ashmead for control of three species of Lepidoptera.

#### Biology & Development :

Abdurahiman & Joseph studied biology and behaviour of an ectoparasite—*Apocrypta bakari* Joseph, and of a chalcidoid fig parasite. Chundurwar made observations on bionomics of braconid *Agathis unicolorata* (Shenefelt) and provided life tables. Deshraj

& Ramakrishnan dealt with economics of mass rearing of *Trichogramma brasiliensis* Ashmead. Goyal & Atwal studied comparative communication behaviour in *Apis* species. Irshad *et al.* made observations on distribution and life history of egg parasite—*Scelio* species on grasshopper in Pakistan. Jain dealt with the life history, in general, of a honey bee. While Nagaraja dealt with experimental hybridization between some species of *Trichogrammatoidea* Girault, Nagarkatti & Nagaraja made experimental comparison of laboratory bred specimens with wild type of *Trichogramma confusum*, particularly keeping in view fertility, fecundity and longevity. Qureshi & Ahmad made an observation on a mud-house nest. Rajasekharappa *et al.* have made studies on queen rearing and occurrence of broodless cells in larger colonies.

#### Faunistics & Zoogeography:

While Ghosh & Stary provided further records of aphid-parasitoids from Meghalaya, Stary and Bhagat recorded aphid parasitoids from Kashmir. While Gupta, S. discovered an Ichneumonid genus *Echthrus* from India, Hayat discovered Encyrtid genus *Anomalicornia* from India, for the first time. While Saxena discovered an Ichneumonid genus *Neodontocryptus* from India and Nepal, Shujauddin reported an Aphidiid genus *Adialytus* from India only, particularly Himachal Pradesh and Jammu & Kashmir.

#### Parasitism & Pathology :

Bhambure reported a viral bee disease in *Apis* sp. in Maharashtra. While Butter reported *Apanteles ruficrus* Haliday as an efficient parasite of armyworm, a lepidopterous pest, Radke & Barwad recorded an Encyrtid parasite—*Aphidencyrtus aphidivorus* (Meyr.) and Raychaudhuri *et al.* recorded some more parasites and predators of aphids from

northeast India and Bhutan. Ramadevi, *et al.* have made observations on oviposition of a bethylid larval parasite—*Perisierola nephanthidis*, of lepidopterous pest—*Nephantis serinopa* Meyr. While Shamamma *et al.* reported on the occurrence of *Microtonus* parasitising adult beetles of *Haltica caerulea* Oliver, Yadava reported a new egg parasite—*Trichogramma* sp. from *Cnaphalocrocis medinalis* Guen., a lepidopterous pest.

### 15. ECHINODERMATA

#### Faunistics :

Mari Bai & Ramanathan have reported the occurrence of an Aspichirote Holothurian, *Holothuria (Semperothuria) cinerascens* (Brandt) from coast of southern India. Menon & Badsha have reported a strange Starfish from Lakshadweep Island.

### 16. HEMICHORDATA

#### Physiology :

Azariah *et al.* have studied the effect of epidermal secretions of Hemichordata, *Ptychodera flava* on growth of Diatoms.

### 17. PROTOCHORDATA

#### Faunistics :

Peter has recorded *Pyrosoma atlanticum* from the Bay of Bengal.

### 18. CHORDATA

#### (a) Pisces

#### General :

Jhingran and Sharma have discussed the high yielding technology of composite fish culture which has revolutionised the fish farm productivity at the Central Inland Fisheries Research Institute. Menon and Ramachandran have dealt with deck arrangement and lay out for diversified fishing. Mirza has given an account of the history of ichthyo-

logy, pure and applied—in Pakistan during the “Centenary Year” of the Fishes of India by Francis Day. Various scientific papers published on the ichthyology of Pakistan are also listed. Zooplankton abundance along the west coast of the Arabian sea during the months of November and December, 1976 has been studied by Nair, Peter and Paulinose. Shastri has discussed in detail the trends in marine fish landings in India.

#### Systematics :

Trends of evolution in the cyprinid genera *Parapsilorhynchus* Hora and *Psilorhynchus* McClelland have been traced by Babu Rao and Yazdani. Gupta and Yazdani have reported a new fossil fish *Scambrochipea misrai* from Kapurdi, Rajasthan. James has furnished a systematic review of the fishes of the family Leioagnathidae including two new records and one new species. Jayaram in his contribution to the study of bagrid fishes, has discussed the systematic position of *Mystus* Scopoli known from China, and with Dhanze he has also furnished a note on the systematic position of *Tachyurus serratus* in his study on “Siluroid fishes of India, Burma and Ceylon”. Lachner and Mckinney have redescribed the Indo-Pacific fish genus *Gobiopsis*, reallocated five nominal genera to its synonymy, redescribed six valid nominal species in the genus and recorded three new species *Gobiopsis aporia*, *G. canalis* and *G. woodsi* from Indian region. Mirza and Awan have described a new species *Schizothorax skardnensis* from Pakistan. Oommen has also reported a new bathypelagic fish *Zebrias maculosus* belonging to family Soleidae from Arabian Sea off Alleppey. The systematics of Indian species of *Ilisha* has been reviewed on the basis of the re-examination of the types of various nominal species deposited in the three European Museums by Ramaiyan and Whitehead. A key to the Indian species of *Ilisha*, modified

from that of White-Head (1972), has been presented with emphasis on the form of the swimbladder as a diagnostic character. Randall has also reviewed the Indo-Pacific labrid fish genus *Macropharyngodon* with descriptions of five new species and a key to the species of the same genus. Singh and Talwar have described a new silver belly fish, *Leiognathus indicus* from the Bay of Bengal and discussed its affinities with related forms in the Indo-Pacific region. Talwar has reported a new Palaeartic cyprinid fish, *Gymnocypris biswasi* from Ladakh. He has also discussed the identity of the Schizothoracid fish genus *Schizothorax* Heckel, 1838 with considerations of the status of *Schizothoraichthys* Misra, 1962. Tilak has provided fresh descriptions and figures of *Hara hara* and the neotype of *H. horai* to record the additional points of difference between the two species. He has also described with Husain a new species, *Lepidocephalus caudofurcatus* with its sexual dimorphism. They have also dealt with the redescription of *Glyptothorax saisii* with remarks on its discontinuous distribution.

#### Morphology & Anatomy :

Hakim, Datta Munshi and Hughes have dealt with measurements of the dimension of the different gills and the suprabranchial chambers and analysed the data with respect to body weight in *C. punctata*. The modifications of various characters of adaptive radiation have been traced in three families of mastacembeloid fishes by Yazdani. Sehgal has discussed in detail the anatomy of the alimentary canal of *Tor tor*.

#### Physiology & Biochemistry :

Bano has observed the changes in chemical composition during growth of *Clarias batrachus*. Bhattacharya, Kumar and Das have discussed the inhibition of thyroid hormone

formation by endrin in the head kidney preparation of *Anabas*. Das has dealt with the caloric values of the ingested food of *Mugil cephalus* and also studied the biochemical components, such as carbohydrates, protein, fat, ash, moisture and energy content of the same species from Goa water and reported that these components varied seasonally in relation to reproductive cycle of the fish. Datta Munshi *et al.* have carried out experiments to measure the oxygen uptake through gills and skin in relation to body weight, in juvenile and adult air-breathing cat fish, *Saccobranchus fossilis*. Goswami has applied chromatographic and colorimetric methods to study quantitatively the amino acid composition of eye lens of *Wallago attu* and *Catla calla* at different stages of growth. Keshavnath has observed the effects of cyproterone acetate on the hypophysis, gonads and seminal vesicles of *Heteropneustes fossilis*. He has also dealt with the effects of surgical and chemical hypophysectomy on the testes and seminal vesicles of the same species. Saraswat has endeavoured to investigate the crude fat, total nitrogen, crude proteins and amino acids of scales of *Channa punctatus* at different stages of growth while the chronic mercuric chloride intoxication, alterations in the activity of some digestive enzymes exposed to lead nitrate and the effect of mercuric chloride on the digestive system of *Channa punctatus* have been dealt with by Sastry and Gupta. Saxena and Garg have reported the effect of insecticidal pollution on ovarian recrudescence in *C. punctata*. Sharma and Ahsan have furnished information on the changes in tissue hydration in female *Heteropneustes fossilis* with relation to breeding.

#### Histology & Histochemistry :

Sehgal has dealt with the histology of the alimentary canal of *Tor tor*. A preliminary

note on the ependymal—neurosecretory—interrenal—thyroid response to inanition in *Clarias batrachus* have been furnished by Kumar *et al.*

#### Cytology :

Rishi has studied the chromosomal homogeneity in two Indian catfishes.

#### Biology & Development :

Das, H. P. has studied the maturity and spawning of *Mugil cephalus* by examinations of gonads while the first detailed report on the food value and seasonal variations, percentage composition of the main food groups, relative gut and body length relationship (RLG) and the condition factor (K-factor) have been presented by Das, S. M. and Pathani. Age and growth of the juveniles of 'Koth', *Otolithoides brunneus* in Bombay has been studied by Jayaprakash. Narasimhan has also made the same study on *Trichiurus lepturus*. Patnaik and Jana have dealt with some aspects of biology of *Lates calcarifer* from Chilka Lake. Raina has made observations on maturation and fecundity of common carp under temperate conditions. Srivastava has dealt, in detail, with the differentiation of electric organ from muscle precusore in the regenerating tail of a weak electric teleost.

#### Haematology :

Ramaswamy and Reddy have made a comparative study of haematology of three air-breathing fishes.

#### Bionomics :

Chondar has dealt with length-weight-volume relationship and fecundity and its role in racial studies of *Gudusia chapra*.

#### Environmental biology :

Rodgi and Nimbargi have reviewed the sewage pollution and fish life.

### Ecology & Behaviour :

Catfish barbels are generally considered as intended for tactile purposes. Evidences have indicated that the barbels have diverse functions. These gustatory, locomotory, aggressive and sexual aspects have been elucidated by Jayaram. Menon and Rema Devi have endeavoured to study the comparative ecology of two sympatric species of *Oxyurichthys* from the Ennore Estuary. Natarajan *et al.* have put forth some new light on population ecology of the Gangetic major carp, *Catla catla* from Rihand reservoir and Tilak has briefly outlined some of the human activities, which influence the fishes in the Himalayas. Vasal and Sundararaj have dealt with the thermal tolerance and preference of *Heteropneustes fossilis*.

### Economic value & Control :

Manisseri and Chandrasekhar have dealt with some aspects of rational utilization of skate, *Rhynchobatus djeddensis* for the preparation of fish products. Murty and Vishnudatta have studied seasonwise distribution of some oceanographic parameters relevant to pelagic fisheries off south-west coast of India. Rao and Yazdani have provided a list of 17 species of fish commonly found in and around Poona feeding on mosquito larvae and suggested that these species may be useful in the control of malaria. Nutritive value of two aquatic weeds and terrestrial grass which are used as feed for the carp, *Otenopharyngodon idella* and the influence of the same species on the physico-chemical and biological qualities of the fish-pond in relation to the feeds given, have been extensively studied and discussed by Venkatesh and Shetty. Wishard has estimated the total annual yield of the economically important fishes of Yamuna in Agra from the catch statistics collected from 1960-1968 and discussed its probable effects.

### Faunistics & Zoogeography :

Appa Rao has indicated about the relative abundance of sciaenids along Andhra—Orissa coast. Informations have been furnished on new records and occurrence of various species, specially on genus *Botia* by Babu Rao and Yazdani ; on sharks *Glyphis glaucus*, *Carcharimus johnsoni* and *C. longimanus* from the coastal waters of Sri Lanka by De Silva, on *Anguilla nebulosa* from Tunga river by Govind *et al.* ; on Pacific parrot-fish *Ypsiscarus oedema* from the Gulf of Mannar by Lal Mohan and Gandhi ; oilsardine in the spawning stage off Vizhingam by Lazarus ; sting-ray *Dasyatis (Dasyatis) microps* on the Madras coast and in the Gulf of Mannar by Nair and Sundarajan ; short-finned worm eel, *Muraenichthys vermiformis* from Indian coast by Patel and Patel ; *Ichthyophis beddomii* from south Kanara by Rahaman and Rajagopal ; Bombay duck *Harpodon nehercus* off Karnataka coast by Rajagopal, K. V. ; six species of the family Carangidae by Srinivasan ; crocodile-fish, *Gargariscus prionocephalus* in Indian waters by Talwar and Mukherjee and four species from Himachal Pradesh by Tilak and Juneja. Butt and Nawaz have dealt with 62 species belonging to 33 genera, 16 families, 5 orders, 4 superorders and 3 cohorts of freshwater fishes from North Waziristan Agency and Dera Ismail Khan Division of North West Frontier Province, Pakistan and also recorded *Tor zhobensis*, *Puntius punjabensis* and *Labeo microphthalmus* for the first time. The skates, rays and their allies, belonging to the orders Rajiformes and Torpediniformes and which are of great interest to both divers and naturalists have been described and figured by De Silva. Jayaram has continued his studies on the curious catfishes of India. A sample of soles, consisting of *Cynoglossus* species obtained from Moplah Bay, Cannanore, have been examined biologically and ichthyologically by Seshappa.

**Distribution :**

Menon has dealt with an appraisal of Satpura hypothesis of distribution of the Malayan fauna and flora to Peninsular India while Mukhacheva has described larvae and fry of seven species belonging to six genera *Vinciguerra*, *Gonostoma*, *Cyclothone*, *Bonapartia*, *Valenciennellus* and *Maurolicus* which are first records from the Indian Ocean.

**Fishery :**

Jhingran and Natarajan have made recommendations for stocking silver carp in Govindsagar (H. P.) and gave an account on the scope and limitations of the species in rivers and reservoirs in India. Kumaran has discussed in detail the primary productivity and fishery potential and the role of upwelling on fluctuations. Raphael has outlined the problems related to the Kerala fishermen and the fish landing trends of the coast of Kerala. Sudarsan and Joseph have carried out studies on Indian fisheries and analysed from a new angle the role of the east coast, eastern States and Bay of Bengal.

**Histopathology :**

Sastry and Gupta have observed the effect of lead nitrate on the digestive system of *Channa punctatus* after 125 days of exposure to a sublethal concentrations (6.8mg/liter) and reported the degenerative changes produced in the histological structure of liver, intestine and pyloric caeca. He has also dealt with the pathological changes in the liver of the same species intoxicated with endrine.

## (b) Amphibia

**Systematics :**

Pillai has given a brief redescription of the type-species *Nyctibatrachus major* to incorporate the new characters and also described a new species *Micrixalus nudis* from Southern India.

**Anatomy :**

Nigam has dealt with the structure and function of the glandular carotica and the glandular intercarotica in *Rana tigrina*.

**Physiology & Biochemistry :**

While Chetty *et al.* have discussed *in vitro* effects of organochlorine pesticide (DDT) on catalytic potential of SDH in gastrocnemius muscles of *Rana hexadactyla*, Gambhir and Das have dealt with the seasonal variations in the reactivity of blood vessels of the frog. Jangir and Niazi have endeavoured to study vitamin A excess on limbs during ontogenesis and regeneration in tadpoles of *Bufo melanostictus*. Mala and Talesara have carried out a histo-enzymological study to highlight the pattern of fibre type differentiation and maturation of the developing gastrocnemius muscle of *Rana tigrina*. Mohanty—Hejmadi, Safriel and Nace have studied the serum proteins and vitellogenesis in *Rana pipiens*. Reddanna and Govindappa have observed the effect of *in vivo* muscular stimulations and reported some aspects of carbohydrates metabolism of amphibian brain during short-term and prolonged muscular stimulation. Swami *et al.* have made an attempt to characterise the specific nature of the proteins involved in reduction of negative-charge density in the soluble fraction of denervated muscle by subjecting it to different types of analysis in *Rana hexadactyla*.

**Histochemistry :**

Chatterjee, Sahu and Bose have dealt with histochemical study and discussed the effects of strychnine on differentiation of the spinal cord and axial skeleton of toad.

**Behaviour :**

Gopalakrishnan and Rajasekarasetty have dealt with animal reproductive behaviour of *R. hexadactyla* from two climatologically con-

trasting regions and correlated with the environmental conditions like temperature, relative humidity and rainfall prevailing in and around Mangalore and Mysore city.

#### *Faunistics & Zoogeography :*

Dubois and Martens have established the presence of a species related to *Bufo viridis* from the Western Himalayas (Kashmir and Ladakh).

#### (c) Reptilia

##### *General :*

Bhaskar has given an account of sea turtles and other marine life in Lakshadweep.

##### *Systematics :*

Duda and Sahi have described a new gekkonid species, *Cyrtodactylus himalayanus* from Jammu. Sharma has reported *Phrynocephalus laungwalensis*, as a new species belonging to family Agamidae from Rajasthan.

##### *Physiology & Biochemistry :*

Magon has dealt with the monophosphate oxidative cycle in the regenerating tail of *Mabuya striata*. Padhi and Patnaik have dealt with changes in ascorbic acid contents of kidney due to partial hepatectomy in *Calotes versicolor* (Daudin). Shah and Hiradhar have made detailed studies on lizard tail regeneration, reviewed certain physiological and biochemical parameters, observed metabolic pattern of the tissues involved in regeneration, discussed alterations in the structurally associated macromolecules and implicated a possible control exerted by the systemic factors.

##### *Histology & Histochemistry :*

Banerjee, T.K. and Mittal have examined the epidermis of *Natrix piscator* using differential histochemical techniques to gain an insight into the mryid of biochemical reactions in-

involved in the maturation, synthesis and accumulation of various types of Keratin in the different strata of of epidermis. Sadhukhan and Banerjee, S. K. have carried out experiment to investigate histomorphic changes in the thyroid glands of the garden lizard, *Calotes versicolor* following injection with single sublethal doses of barbital sodium. Talesara, Maru and Chaudhuri have conducted neurohistological and histochemical studies to observe the distribution of nerves and cholinesterase activity of the tongue of *C. versicolor*.

##### *Wildlife & Conservation :*

Murthy has reported about the endangered reptiles of India. Whitaker and Daniel have discussed the status of Asian crocodilians.

##### *Faunistics & Zoogeography :*

Murthy has furnished an up-to-date list of the reptiles of Madras city and its neighbourhood and with Sharma has reported the distribution of cantor's Polyodont snake, *Sibynophis sagittarius* from Jammu & Kashmir. Talukdar, Gayen and Sanyal have made first record of *Mabuya beddomi* from Orissa.

##### *Distribution :*

Ahmed has dealt with the sea-snakes of the Indian Ocean present in the collections of the Zoological Survey of India and made comments on the geographical distribution of all Indian-Ocean species. The distributional patterns of the genus *Calotes* of Sri Lanka has also been elucidated by Erdelen.

##### *Palaeontology :*

Buffeataut has given a detailed account of crocodilian remains from freshwater Eocene sediments of Punjab, Pakistan, belonging to Dyrosauridae (Mesosuchia) and Pristichampsiniae (Eusuchia, Crocodylidae).

## (d) Aves

*General :*

Aleem has reported re-introduction of blackbuck of the Cholistan desert.

*Systematics :*

Lamba and Bhatnagar have reported, in detail, the fauna of Corbett National Park.

*Morphology & Anatomy :*

Dubale has made an elaborate observation on the epidermal and supporting elements of avian feeding apparatus.

*Physiology & Biochemistry :*

Ahmad, Singh and Garg have made studies to find out whether ATP or some other purine nucleotide plays a neurotransmitter role in chick gut. Babu, Chalapathi and Chari have endeavoured to study the aerodynamic parameters, flight energetics and moment of inertia of the wing of *Acridotherus tristis*. Chand, Georgie and Razdan have dealt with the variation in gross components, yolk lipid and yolk cholesterol content of eggs during pullet year production in Australorp. Das *et al.* have performed a detailed study on the selenium supplementation to the feeds of white cornish chicks. An investigation on the effect of experimentally infected acute and classical Marek's disease on the brain of White Leghorn chicks has been carried out by Jayaprakash and Misra. Mathew has discussed mault, in detail, in the Baya Weaver *Ploceus philippinus*. Pilo and Patel have extended their study on neuroendocrine control of uptake and metabolism of glucose in avian liver. Singh and Ray have performed gross and histomorphological studies on the thyroid gland in relation to different physiological stages of White Leghorn hens. Yadav has carried out a comparative study of haematological values

especially the blood glucose in some selected Indian birds. He has also described the seasonal changes in the blood contents of *Columba livia*.

*Biology :*

Ghosh and Bhattacharyya have described the biology of the uropygial gland.

*Ecology & Behaviour :*

Daniel and Somane have carried out studies on bird migration in India, particularly the migrant warders of the family Charadriidae. Lamba has studied, in detail, the breeding habits of Indian Purple-rumped Sunbird *Nectarinia zeylonica* for a period of three years at Poona. Malhotra has dealt with food and feeding behaviour of certain Indian oscines. Subbiah *et al.* have discussed, in detail, the effect of environment on the performance of White Leghorn layers. Verghese and Chakravarthy have made an attempt to study some aspects of nesting behaviour of spotted dove *Streptopelia chinensis* in Bangalore.

*Reproduction :*

Thapliyal has carried out study on reproduction in Indian birds and reported some interesting features on complete depletion of the seminiferous tubules in some species.

*Wild life :*

Ali has reported the Blewitt's owl and the pink-headed duck *Rhodonessa caryophyllacea* in 'Mystery' birds of India—3 & 4. Phillips has described the present status, ways and range of partridges of Ceylon.

*Faunistics :*

Strickland and Jenner have furnished a report on the birds of Addu Atoll, Maldiv Islands.

**Parasitology :**

Basu, Mukherjee and Mukherjee have endeavoured to study the host-parasite relationship in bird malaria and reported *Plasmodium (Garnhamella) coturnizae* as a parasite with a new name which is only capable of infecting the birds of the same genus.

**Pathology :**

Das and Rao have made observations on the mortality of brooder house chicks due to nutritional encephalomalacia. Mohan *et al.* have reported the incidence and pattern of chick mortality in four White Leghorn strain.

## (e) Mammalia

**General :**

Ali has furnished informations on facts and fancy of elephant life. Singh *et al.* have conducted a capillary tube agglutinations test for equine babesiosis.

**Systematics :**

Basit and Beg have made an analysis of non-geographic variations in the body and skull measurements of *Funambulus pennanti* from Faisalabad district and laid a basis for future studies of geographic variations. Chakraborty has described a new species, *Crocidura jenkinsi* from Wright Myo, Andamans and carried out taxonomic studies on *Rhinolophus ferrumequinum*. Hussain, S. A. and Khan have given description of a new subspecies of Bay owl, *Phodilus badius ripleyi* from Palghat, Kerala. Hussain, S., Taseer *et al.* have made detailed studies on Middle Eocene rodents from the Kala Chitta, Punjab, Pakistan and erected one new genus and described six new species. Khajuria has reported four rare South Indian bats which are proved to be new records and also provided detailed particulars on their habitat,

colouration and measurements. He has dealt with the discovery, authorship, taxonomic status and bibliography of golden langur, *Presbytis geei* and made application of a new hypothesis to the study of Sulewesiani monkeys.

**Morphology & Anatomy :**

Bamel, Dhingra and Sharma have studied the origin, course and distribution of the vertebral, condylar and internal carotid arteries of *Bubalus bubalis*. Guraya has reviewed, in detail, the recent advances in the morphology of bovine ovarian compartments and steroid biosynthesis. Patel has studied the functional morphology of the masticatory muscles of *Mus musculus*. Rao has carried out detailed quantitative histomorphological studies on the spinal ganglia of Indian buffalo. Singh and Bharadwaj have reported the morphological changes in the testis and epididymis and the anatomical changes in the poll glands of *Camelus dromedarius*.

**Physiology & Biology :**

Agarwal, Raizada and Pandey have endeavoured to investigate the post-parturitional changes in the uterus of buffalo cows. Bhat and Cama have dealt with chicken prealbumin and observed the nature of its heterogeneity and binding of plasma retinol—binding protein and thyroid hormones. Dixit and Bhargava have studied the effects of *Malvaviscus conzattii* flower extract on the male reproductive organs of *Rhinopoma kinneari* and with Sandhu they have also discussed the effects of the same extract on the testicular function of dog, *Canis familiaris*. Gampawar *et al.* have made detailed studies on the thyroid activity in Barbari goats. Kameswaran *et al.* have made an attempt to correlate the glands and their secretions with the distribution and morphology of mast cells in tissues of the albino rats. Kanwar and Bansal have obser-

ved the lipid changes after cadmium chloride administration in rats testis, and with Bawa, they have also studied the testicular enzymes following the same chemical administration. Succinic dehydrogenase activity in the skeletal muscle fibres in some mammals have been quantitatively studied and classification of the muscle fibres on the basis of the mitochondrial concentrations have been reviewed by Malhotra and Bindal. Mukherjee and Singh have dealt with quantitative characteristics of sex chromatin in the leucocytes of the lactating cattle and buffalo. Pathak *et al.* have made a detailed observation on the mucosa of the fallopian tube of immature rhesus monkey *Macaca mulatta*. Patil and Raja have reported the effect of season on the semen characteristics of Malabari bucks. The effect of feeding various forms of axalate on the rumen metabolism and the fate of calcium in *Bubalus bubalis* calves have been studied by Saddi *et al.* Singh, Rajalakshmi and Prasad have observed the change in levels of RNA and protein in epididymis, ductus deferens and accessory glands of reproduction in the albino rat during postnatal development. Sreekrishna and Cama have dealt with purification of goat serum retinol-binding protein and preparation of its antibodies. Talesara and Mohini have made studies to observe the activities of the enzymes, succinic dehydrogenase, lactic dehydrogenase etc. in connection with age-related quantitative changes in the metabolic profile of liver, heart, diaphragm, gastrocnemius muscle and kidney of rats. Vadodaria, Janakiraman and Buch have discussed, in detail, the thyroid activity in relation to reproductive performance of surti buffalo heifers *Bubalus bubalis*.

#### Biology & Development :

Bhiwgade has discussed, in detail, the development of the foetal membranes in the Indian horse—shoe bat, *Rhinolophus rouxi*.

Gopalkrishna and Khaparde have also studied the early development, implantation, amniogenesis, development of the foetal membranes and placentation in *Megaderma lyra lyra*.

#### Ecology & Behaviour :

Bishop has observed a group of langurs, *Presbytis entellus* at 4720 metres in north-Central Nepal in August 1972 as the highest recorded sighting and made an assesment that the lower ranges of the Himalayas do not provide insurmountable barriers to the exchange of genes between Himalayan groups of this species. Mukherjee has dealt with the effects of crowding on temple rhesus monkeys of Imphal, Manipur. Pirta and Singh have carried out study on establishment of home range, intraspecific and interspecific relations in *Macaca mulatta* under infant rearing conditions. Taylor *et al.* have discussed the social interactions between adult male and infant rhesus monkeys in Nepal.

#### Histochemistry :

Arora—Dinakar *et al.* have given an account of histochemical distribution of phosphates, metabolites and lipolytic enzymes and localization of dehydrogenases in different regions of the epididymis of *Macaca mulatta*. Madhyastha and Gopal Dutt have elucidated the prolactin secreting cells in the hypophysis of *Mus platythrix*. Prakash and Rao have dealt with quantitative histological study of the aortic nerve and aortic body in *Bubalus bubalis*.

#### Cytology :

Sharma, Sobti and Khattar have studied, in detail, the chromosomes of *Muntiacus muntjak* especially in regard to their behaviour during the mitotic and meiotic cycles and the sex mechanism.

*Genetics :*

Gupta and Ray-Chaudhury have reported the Robertsonian changes in the chromosomes of *Bubalus bubalis*. Krishnamurthy and Rathnasabapathy have studied, in detail, the genetics of haemoglobin in Nilagiri, Merino and their cross-bred sheep and discussed the distribution, inheritance and relationship of Hb types with certain haematological traits. Sharma and Singh have dealt with the evaluation of genetic potential of Bhadawari buffaloes to study the reproductive and productive characters and also the genetic and phenotypic correlations.

*Reproduction :*

Breeding of the pigmy hog *Sus salvanius* in northern Assam has been reported, in detail, by Mallinson. Odedra, Kaushik and Katpatal have carried out studies on the magnitude of some of the important reproductive characters of Gir cattle and determined the genetic variations in them. Saxena, Tripathi and Manglik have discussed the interrelationship between semen characteristics and preservability in Murrah bulls.

*Wildlife & Conservations :*

Gooneratne has given an account of the

Ceylon elephant *Elephas maximus zeylanicus* and a scheme for their protection. Lamba has discussed, in detail, the recent threat to wild life by man in the Western Himalaya.

*Faunistics :*

Chakraborty has made an addition of *Lepus arabis* from Jammu & Kashmir to the mammalian fauna of India. Saha has reported some mammals recently collected in Bhutan.

*Pathology :*

Amma *et al.* have reported the changes in rat plasma hydroxyproline during oestrus and estrogen treatment. Kulshreshtha and Kalra have studied the cases of scrotal infections in sheep with testicular and epididymal involvement. Nair, Dighe and Nanavati have written about the role of bandicoots in rabies transmission.

*Palaeozoology :*

Gupta has described a few Upper Siwalik vertebrates from the Pinjor sandstones exposed in Jhandikhad, near Malahri, Indore, H. P.

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### III. LIST OF NEW TAXA

*Note* : All new taxonomic categories except new species, have been indicated by suffixing appropriate terms such as fam. n., subfam. n., gen. n., subgen. n., subsp. n., etc.

The numbers in bracket appearing on the right side refer to the serial number of the main title.

#### I. PHYLUM : PROTOZOA

I. Class : Mastigophora

(I) Order : Kinetoplastida

Family : Trypanosomatidae

1. *Trypanosoma anabasi* Mandal (962)
2. *Trypanosoma cancili* Mandal (962)
3. *Trypanosoma gangetica* Sinha (1832)
4. *Trypanosoma mrigali* Joshi (720)
5. *Trypanosoma seenghali* Joshi (720)

(2) Order : Oxymonadida

Family : Polymastigidae

6. *Monocercomonoides gryllusae* Sultana & Krishnamurthy (1931)

(3) Order : Polymastigina

(i) Family : Polymastigidae

7. *Polymastix indica* Krishnamurthy & Sultana (839)

(ii) Family : Trichomonadidae

8. *Tritrichomonas simhii* Rao, Devi, Reddy, Dayakar & Rao (1455)

(4) Order : Prolomnadina

Family : Bodonidae

9. *Proteromonas kakatiya* Rao, Devi, Dayakar, Reddy & Rao (1454)
10. *Proteromonas warangalensis* Rao, Devi, Dayakar, Reddy & Rao (1454)

(5) Order : Trichomonostida

Family : Monocercomonadidae

11. *Monocercomonas aurangabadensis* Krishnamurthy & Madre (838)
12. *Monocercomonas cyanophycti* Krishnamurthy & Madre (838)
13. *Monocercomonas kakatiyae* Dayakar, Rao, Devi, Reddy & Rao (395)
14. *Monocercomonas melanostici* Krishnamurthy & Madre (838)
15. *Monocercomonas* (M.) *breviflagellata* Madre (927)
16. *Monocercomonas* (M.) *calotesi* Madre (927)
17. *Monocercomonas* (M.) *marathwadensis* Madre (927)

II. Class : Sarcodina

Order : Foraminiferida

Family : Rotaliidae

- Praestorrsella* Gowda (g. n.) (545)
18. *Praestorrsella ariyalurensis* Gowda (545)
  19. *Praestorrsella reicheli* Gowda (545)

III. Class : Sporozoa

(I) Order : Coccidia

Family : Adeleidae

20. *Adelina rayi* Narasimhamurti (1144)

(2) Order : Eugregarinida

Family : Actinocephalidae

*Contospora* Devdhar & Amoji (gen. n.) (416)

21. *Contospora opalnia* Devdhar & Amoji (416)

- (3) Order : Gregarinida  
 (i) Family : Acanthosporidae
22. *Cometoides spinosa* Devdhar & Deshpande (417)
- (ii) Family : Actinocephalidae
23. *Anthorhynchus hanumanthi* Kalavati & Narasimhamurti (738)
24. *Sciadiophora gagrellula* Devdhar & Amoji (415)
25. *Steinina coptotermi* Kalavati & Narasimhamurti (738)
- (iii) Family : Gregarinidae
26. *Gregarina alcidesii* Haldar & Chakraborty (616)
27. *Gregarina crescentica* Haldar & Chakraborty (616)
28. *Gregarina macrotermis* Kalavati & Narasimhamurti (738)
29. *Gregarina sparaguei* Haldar & Chakraborty (616)
- (4) Order : Haemosporidia  
 Family : Plasmodiidae
30. *Isospora ceylonensis* Sinha *et. al.* (1833)
- (5) Order : Microsporidia  
 Family : Mrazekiidae
31. *Octospora porcellioi* Kalavati & Narasimhamurti (737)
32. *Toxoglugea tillargi* Kalavati & Narasimhamurti (736)
- IV. Class : Ciliata  
 Order : Tintinnida  
 Family : Tintinnidae
33. *Dictyocysta seshaiyai* Krishnamurthy & Santhanam (837)
- II. PHYLUM : (CNIDARIA) COELENTERATA  
 Class : Hydrozoa  
 Family : Halammohydridae
34. *Halammohydra andamanensis* Rao (1430)
- III. PHYLUM : PLATYHELMINTHES  
 I. Class : Trematoda  
 Sub-Class : Digenea
- (i) Family : Bucephalidae  
*Roparhynchus* Gupta & Kumari (gen. n.) (578)
35. *Roparhynchus nelsonii* Gupta & Kumari (578)
- (ii) Family : Hemiuridae  
*Chelatrema* Gupta & Kumari (gen. n.) (576)
36. *Chelatrema symthi* Gupta & Kumari (576)
37. *Lecithocladium indicum* Gupta & Gupta (596)
38. *Lecithocladium keralense* Gupta & Gupta (596)
39. *Lecithocladium purense* Gupta & Gupta (596)
- 39a. *Lecithocladium thupari* Gupta & Gupta (596)
40. *Lecithocladium triacanthi* Gupta & Gupta (596)
- (iii) Family : Notocotylidae
41. *Notocotylus anseri* Gupta & Gupta (594)
42. *Paramonostomum indica* Gupta & Gupta (595)
43. *Paramonostomum kanpurensis* Gupta & Gupta (595)
44. *Paramonostomum poecilorhynchai* Gupta & Gupta (595)
45. *Paramonostomum thapari* Gupta & Gupta (595)

- (iv) Family : Opisthorchiidae
46. *Cercaria candrapali* Bansal & Jain (150)
47. *Cercaria chelawaensis* Srivastava (1905)
48. *Cercaria chinahatensis* Srivastava (1905)
49. *Cercaria derabassii* Gupta & Sharma (582)
- (v) Family : Plagiorchiidae
50. *Encyclometra patnai* Lal (897)
- II. Class : Cestoda
- Family : Anoplocephalidae
51. *Paronia galli* Nama (1134)
- IV. PHYLUM : ASCHELMINTHES
- Class : Nematoda
- (i) Family : Aphelenchidae
52. *Aphelenchus papayae* Tandon & Singh (1965)
53. *Aphelenchus sanwalae* Tandon & Singh (1965)
- (ii) Family : Cobonchidae
54. *Cobonchus indicus* Baqri, Baqri & Jairajpuri (152)
- (iii) Family : Dicyemidae
55. *Dicyemenea coromandelensis* Kalavati, Narasimhamurti & Suseela (739)
- (iv) Family : Dorylaimidae
56. *Dorylaimus conurus* Andrassy (70)
57. *Labronema loeffleri* Andrassy (70)
58. *Prodorylaimium alpinum* Andrassy (70)
- (v) Family : Hemicycliphoridae
- Hemiciloosia* Ray & Das (gen. n.) (1476)
59. *Hemicaloosia americana* Ray & Das (1476)
- (vi) Family : Heterocheilidae
60. *Dujardinascaris cybii* Arya & Johnson (104)
- (vii) Family : Heteroderidae
61. *Heterodera oryzicola* Rao & Jayaprakash (1460)
- (viii) Family : Iotonchidae
62. *Iotonchus coomansi* Baqri, Baqri & Jairajpuri (152)
63. *Iotonchus longicaudatus* Baqri, Baqri & Jairajpuri (152)
- (ix) Family : Leptonchidae
- Athernema* Ahmad & Jairajpuri (gen. n.) (33)
64. *Athernema unicum* Ahmad & Jairajpuri (33)
- (x) Family : Longidoroidae
- Longidoroides* (gen. n.) Khan, Chawla & Saha (792)
65. *Longidoroides cedari* Khan, Chawla & Saha (792)
- Paralongidorinae* Khan, Chawla & Saha (subfam. n.) (792)
66. *Paralongidorus esci* Khan, Chawla & Saha (792)
- Siddiqia* Khan, Chawla & Saha (gen. n.) (792)
- Xiphidonidae Khan, Chawla & Saha (fam. n.) (792)
67. *Xiphinema codiae* Singh (1816)
68. *Xiphinema elitum* Khan, Chawla & Saha (792)
- (xi) Family : Mononchiidae
69. *Miconchus aquaticus* Khan, Ahmad & Jairajpuri (806)
70. *Miconchus citri* Khan, Ahmad & Jairajpuri (806)
- (xii) Family : Oxyuridae
71. *Tachygonetria ruparensis* Gupta & Aggarwal (573)
- (xiii) Family : Physalopteridae
72. *Physaloptera funambuli* Parihar & Nama (1251)

(xiv) Family : Thelastomatidae

73. *Gryllocola thapari* Tewarson & Gupta  
(1976)

*Welchiella* Gupta & Kaur (gen. n.) (574)

74. *Welchiella poinaria* Gupta & Kaur (574)

(xv) Family : Tylenchorhynchidae

75. *Tylenchorhynchus swarupi* Singh & Khera  
(1808)

(xvi) Family : Xiphidoridae Khan,  
Chowla & Saha (fam. n.) (792)

(xvii) Family : ?

76. *Pseudonymous reuhmi* Gupta & Kaur  
(574)

#### V. PHYLUM : ANNELIDA

Class : Chaetopoda

Order : Errantia

Family : Hesionidae

77. *Hesionides similis* Rao (1431)

#### VI. PHYLUM : SIPUNCULIDA

Family : Aspidosiphonidae

78. *Aspidosiphon (Paraspidosiphon) havelockensis* Halder (614)

#### VII. PHYLUM : BRYOZOA (ECTOPROCTA)

79. *Hippoporina indica* Pillai (1299)

#### VIII. PHYLUM : BRACHIOPODA

(1) Order : Orthida

(i) Family : Dolerorthidae

80. *Doleorthis buntengensis* Gupta (605)

(ii) Family : Rhipidomellidae

81. *Platyorthis naubugensis* Gupta (605)

(2) Order : Rhynchonellida

Family : Rhynchonellidae

82. *Eatonia muthensis* Gupta (605)

83. *Machaesaria kashmiriensis* Gupta (605)

#### IX. PHYLUM : MOLLUSCA

Class : Bivalvia

Order : Ostrina

(i) Family : Gryphaeidae

84. *Ceratostreon profunda* Chiplonkar &  
Badve (334)

(ii) Family : Ostreidae

*Bosostrea* Chiplonkar & Badve (gen. n.)  
(334)

85. *Bosostrea bosei* Chiplonkar & Badve (334)

86. *Bosostrea lata* Chiplonkar & Badve (334)

87. *Bosostrea fluexuosa* Chiplonkar & Badve  
(334)

88. *Bosostrea scidiformis* Chiplonkar & Badve  
(334)

#### X. PHYLUM : ARTHROPODA

I. Class : Trilobita

Family : ?

89. *Ditomopyge lidarensis* Gupta & Kaul  
(607)

II. Class : Arachnida

(1) Order : ?

Family : ?

90. *Alocobisium ocellatum* Beier (170)

91. *Myrmecowithius pakistanicus* Beier (170)

(2) Order : Araneae

(i) Family : Agelenidae

92. *Coelotes baronii* Brignoli (249)

93. *Coelotes schenkeli* Brignoli (249)

94. *Coelotes stemmleri* Brignoli (249)

95. *Coelotes wuermlii* Brignoli (249)

96. *Tegenaria wittmeri* Brignoli (249)

(ii) Family : Ctenizidae

97. *Acanthodon garoensis* Tikader (1995)

98. *Acanthodon madrasensis* Tikader (1995)

- (iii) Family : Dinopidae
99. *Dinopis goalparaensis* Tikader & Malhotra (1998)
- (iv) Family : Hahniidae
100. *Hahnia caelebs* Brignoli (249)
101. *Hahnia innupta* Brignoli (249)
102. *Hahnia lehtineni* Brignoli (249)
103. *Hahnia musica* Brignoli (249)
104. *Hahnia tikaderi* Brignoli (249)
- (v) Family : Lyssomanidae
105. *Lyssomanes bengalensis* Tikader & Biswas (1997)
106. *Lyssomanes karnatakaensis* Tikader & Biswas (1997)
- (vi) Family : Mimetidae
107. *Ero cachinnans* Brignoli (249)
- (vii) Family : Oecobiidae
108. *Oecobius chiasma* Barman (154)
- (viii) Family : Oonopidae
109. *Camptascaphiella hilaris* Brignoli (249)
110. *Epectris aenabarbus* Brignoli (249)
111. *Opopaea sponsa* Brignoli (249)
112. *Orchestina aerumnae* Brignoli (249)
- (ix) Family : Oxyopidae
113. *Peucezia akwadaensis* Patel (1262)
- (x) Family : Salticidae
114. *Aelurillus wittmeri* Proszynski (1330)
115. *Cybra tibialis* Proszynski (1330)
116. *Langona bhutanica* Proszynski (1330)
117. *Phlegra samchiensis* Proszynski (1330)
118. *Synagelides wangdicus* Bohdanowicz (236)
119. *Synagelides wuermlii* Bohdanowicz (236)
- (xi) Family : Theraphosidae
120. *Ischnocolus decoratus* Tikader (1995)
121. *Ischnocolus khasiensis* Tikader (1995)
122. *Phlogiodes himalayensis* Tikader (1995)
123. *Plesiophrictus mahabaleshwari* Tikader (1995)
124. *Plesiophrictus meghalayaensis* Tikader (1995)
125. *Ornithoctomus gadgili* Tikader (1995)
- (xii) Family : Thomisidae
126. *Platythomisus sudeepi* Biswas (230)
- (3) Order : Acarina
- (i) Family : Digamasellidae
127. *Digamasellus sitalaensis* Bhattacharya (211)
- (ii) Family : Eriophyidae
128. *Eriophyes cymbopogonis* Mohanasundaram
- (iii) Family : Laelapidae
129. *Oleolaelaps burdwanensis* Bhattacharya (211)
130. *Oleolaelaps sitalaensis* Bhattacharya (211)
- (iv) Family : Nanhermanniidae
131. *Cyrthermannia quadricornuta* Chakrabarti & Bhaduri (259)
132. *Nanhermannia himalayensis* Chakrabarti & Bhaduri (259)
- (v) Family : Pergamasidae
133. *Paragmasus (M.) bhutanensis* Athias-Henriot (109)
- (vi) Family : Phytoseiidae
134. *Amblyseius channabasavanni* Gupta (601)
135. *Amblyseius guajavae* Gupta (603)
136. *Amblyseius kulini* Gupta (603)
137. *Amblyseius manipurensis* Gupta (603)
138. *Amblyseius meghalayensis* Gupta (603)
139. *Amblyseius neococcinia* Gupta (603)
140. *Euseius kodaikanalensis* Gupta (601)
141. *Typhlodromalus eucalypticus* Gupta (601)
142. *Typhlodromips neocrotalariae* Gupta (601)
143. *Typhlodromips tetranychivorus* Gupta (601)

144. *Typhlodromus channabasavanni* Gupta (601)  
 145. *Typhlodromus kodaikanalensis* Gupta (602)  
 146. *Typhlodromus neotransvaalensis* Gupta (602)  
 147. *Typhlodromus rhododendroni* Gupta (602)  
 (vii) Family : Rhodacaridae  
 148. *Gamasiphis indicus* Bhattacharya (211)  
 (viii) Family : Sejidae  
 149. *Sejus indicus* Bhattacharya (211)  
 (ix) Family : Tenuipalpidae  
 150. *Colopalpus punjabensis* Maninder (974)  
 151. *Tenuipalpus acacii* Maninder & Ghai (975)  
 152. *Tenuipalpus amygdalusae* Maninder & Ghai (975)  
 153. *Tenuipalpus cissampelosa* Maninder & Ghai (975)  
 154. *Tenuipalpus feresianus* Maninder & Ghai (975)  
 155. *Tenuipalpus fici* Maninder & Ghai (975)  
 156. *Tenuipalpus indicus* Maninder & Ghai (975)  
 157. *Tenuipalpus ixorae* Maninder & Ghai (975)  
 158. *Tenuipalpus pruni* Maninder & Ghai (975)  
 159. *Tenuipalpus pyrusae* Maninder & Ghai (975)
- III. Class : Crustacea  
 (a) Subclass : Branchiopoda  
 Order : Conchostraca  
 Family : Cyzicidae
160. *Eocycticus swatensis* Chaudhuri, Ghauri & Mohan (312)
- (b) Subclass : Ostracoda  
 Order : Podocopa  
 Family : Darwinulidae
161. *Darwinula lundi* Neale & Victor  
 (c) Subclass : Copepoda  
 (1) Order : Calanoida  
 Family : Acartiidae
162. *Acartia dweepei* Haridas & Madhupratap (627)  
 (2) Order : Harpacticoida  
 Family : Harpacticidae
163. *Stenhelia (Delavalia) krishnensis* Radhakrishna & Ranga Reddy (1346)  
 (3) Order : ?  
 Family : Lernaoceridae
164. *Peniculisa wilsoni* Radhakrishna (1344a)  
 (d) Subclass : Malacostraca  
 (1) Order : Amphipoda  
 Family : Gammaridae
165. *Anisogammarus madyensis* Chaudhuri, Ghauri & Mohan (312)  
 (2) Order : Decapoda  
 (i) Family : Pontoniidae
166. *Periclimenaeus spinimanus* Bruce (251)  
 (ii) Family : Upogebiidae
167. *Upogebia quddusiae* Tirmizi & Ghani (2010)  
 (3) Order : Isopoda  
 Family : Cymothoidae
168. *Nerocila madrasensis* Ramakrishna & Venkata Ramaniah (1397)  
 (4) Order : Stomatopoda  
 Family : Lysiosquillidae
169. *Lysiosquilla sulcata* Raymond (1481)

- IV. Class : Insecta  
 (1) Order : Odonata  
 (i) Family : Aeshnidae
170. *Cephalaeschna triadica* Lieftinck (916)  
 (ii) Family : Gomphidae
171. *Davidius baronii* Lieftinck  
 (2) Order : Plecoptera  
 (i) Family : Chloroperlidae
172. *Haploperla longicauda* Zwick (2153)  
 (ii) Family : Leuctridae
173. *Rhopalopsole gladifera* Zwick (2153)  
 (iii) Family : Nemouridae
174. *Amphinemura bella* Zwick (2153)  
 175. *Amphinemura dentata* Zwick (2153)  
 176. *Amphinemura exigua* Zwick (2153)  
 177. *Amphinemura fusca* Zwick (2153)  
 178. *Amphinemura fuscipes* Zwick (2153)  
 179. *Amphinemura lurida* Zwick (2153)  
 180. *Amphinemura nigrifrons* Zwick (2153)  
 181. *Amphinemura pulchra* Zwick (2153)  
 182. *Amphinemura simplex* Zwick (2153)  
 183. *Indonemoura geminus* Zwick (2153)  
 184. *Indonemoura rubrifasciata* Zwick (2153)  
 185. *Nemoura abscissa* Zwick (2153)  
 (iv) Family : Perlidae
186. *Acroneuria* (s. l.) *distinguenda* Zwick (2153)  
 187. *Kamimuria lutulenta* Zwick (2153)  
 188. *Neoperla montivaga* Zwick (2153)  
 189. *Phanoperla himalayana* Zwick (2153)  
 (:) Order : Orthoptera  
 Family : Acrididae
190. *Brachycrotaphus hoshiarpurensis* Singh (1749)  
 191. *Cataloipus himalayensis* Singh & Tandon (1750)  
 192. *Eupreponotus punctatus* Singh (1748)
- (4) (Order) : Dermaptera  
 Family : Carcinophoridae  
 (a) Sub-family : Carcinophorinae
193. *Epilabis nilgiriensis* Srivastava (1895)  
 194. *Epilabis punctata* Srivastava (1895)  
 (b) Sub-family : Opisthocosmiinae  
*Parasondax* Srivastava (gen. n.) (1895)
195. *Parasondax contralli* Srivastava (1895)  
 (5) Order : Psocoptera  
 (i) Family : Amphientomidae
196. *Pseudoseopsis marginepunctata* New (1185)  
 (ii) Family : Caeciliidae
197. *Fuelleborniella bhutanensis* New (1185)  
 (iii) Family : Epipsocidae
198. *Epipsocus thimphuensis* New (1185)  
 (iv) Family : Psocidae
199. *Metylophorus fuscatus* New (1185)  
 200. *Metylophorus paranebulosus* New (1185)  
 201. *Psocidus* (s. str.) *samchiensis* New (1185)  
 202. *Psococerastis rhondae* New (1186)  
 203. *Trichadenotecnum sclerotum* New (1185)  
 (v) Family : Stenopsocidae
204. *Kodamaius wittmeri* New (1185)  
 205. *Stenopsocus signalipennis* New (1185)  
 (6) Order : Phthiraptera  
 Family : ?
206. *Myrsidea ananthakrishnani* Rai (1367)  
 (7) Order : Anoplura  
 Family : Haematopinidae
207. *Haematopinus oliveri* Mishra & Singh (1021)  
 (8) Order : Hemiptera  
 (a) Suborder : Homoptera  
 (i) Family : Agallidae
208. *Agallia delhiensis* Rao & Ramakrishnan (1445)

209. *Agallia pseudorobusta* Rao & Ramakrishnan (1445)
210. *Agallia srinagarensis* Rao & Ramakrishnan (1445)
211. *Durgades distanti* Rao & Ramakrishnan (1446)
- (ii) Family : Aleyrodidae
212. *Aleurotuberculatus manii* David (392)
- (iii) Family : Aphididae
213. *Anoecia himalayensis* Chakrabarti & Maity (265)
214. *Chaetogeoica graminiphaga* Raychaudhuri, Pal & Ghosh (1479)
215. *Chaetogeoica polychaeta* Raychaudhuri, Pal & Ghosh (1479)
216. *Geoica sikkimensis* Raychaudhuri, Pal & Ghosh (1479)
217. *Greenidea (Trichosiphum) kumaoni* Chakrabarti & Raychaudhuri (268)
- Indotetraneura* Chakrabarti & Maity (gen. n.) (265)
218. *Jacksonia campanulata* Chakrabarti & Raychaudhuri (268)
219. *Micromyzus brachiarae* Ghosh (509)
220. *Mollitrichosiphum (Metatrichosiphon) alnifoliae* Chakrabarti & Raychaudhuri (268)
221. *Pemphigus vulgaris* Raychaudhuri, Pal & Ghosh (1479)
222. *Rhopalosiphum esculentum* Raychaudhuri & Raychaudhuri (1480)
223. *Tetraneura (Indotetraneura) lambersi* Chakrabarti & Maity (265)
224. *Tetraneura kalimpongensis* Raychaudhuri, Pal & Ghosh (1479)
225. *Tetraneura multisetosus* Raychaudhuri, Pal & Ghosh (1479)
226. *Tetraneura sikkimensis* Raychaudhuri, Pal & Ghosh (1479)
227. *Uroleucon fuscaudalus* Chakrabarti & Raychaudhuri (268)
- (iv) Family : Cicadellidae
228. *Agnesiella swaraji* Sharma (1682)
- (v) Family : Delphacidae
229. *Macromyzus manoji* Raha & Raychaudhuri (1351)
- (vi) Family : Membracidae
230. *Tricentrus bucktoni* Yasmeen & Ahmad (2146)
231. *Tricentrus minimus* Yasmeen & Ahmad (2146)
232. *Tricentrus solitarius* Yasmeen & Ahmad (2146)
233. *Tricentrus strumpeli* Yasmeen & Ahmad (2146)
- (vii) Family : Ulopidae
234. *Moonia immaculata* Rao & Ramakrishnan (1444)
235. *Moonia ixora* Rao & Ramakrishnan (1444)
236. *Moonia sancita pomegranata* Rao & Ramakrishnan (1444)
- (b) Suborder : Heteroptera
- (i) Family : Anthocoridae
- Indocoris* Muraleedharan & Ananthakrishnan (gen. n.) (1078)
237. *Indocoris tarsatus* Muraleedharan & Ananthakrishnan (1078)
238. *Lasiochilus indicus* Muraleedharan (1077)
239. *Physopleurella indica* Muraleedharan & Ananthakrishnan (1078)
240. *Physopleurella loyola* Muraleedharan & Ananthakrishnan (1078)

- (ii) Family : Miridae
241. *Macrotylus suhaili* Ghauri (507)  
*Montanorthops* Ghauri (gen. n.) (507)  
*Onderothops* Ghauri (gen. n.) (507)
242. *Onderothops feyzii* Ghauri (gen. n.) (507)
- (iii) Family : Pentatomidae
- Cahara* Ghauri (gen. n.) (506)
243. *Cahara bhawaliana* Ghauri (506)
244. *Cahara chaubattia* Ghauri (506)
245. *Cahara kightleyi* Ghauri (506)
246. *Cahara montana* Ghauri (506)
247. *Cahara murreeana* Ghauri (506)  
*Sarju* Ghauri (gen. n.) (505a)
248. *Sarju burmana* Ghauri (505a)
249. *Sarju burmana khasiana* Ghauri (subsp. n.) (505a)
250. *Sarju enigma* Ghauri (505a)
251. *Sarju farida* Ghauri (505a)
252. *Sarju lata* Ghauri (505a)
253. *Sarju lata quadrata* Ghauri (505a)
254. *Sarju taungyiana* Ghauri (505a)
- (9) Order : Thysanoptera
- (i) Family : Phlaeothripidae
255. *Crotonothrips (Inermothrips) cacharensis* Muraleedharan & Sen (1080)  
*Inermothrips* Muraleedharan & Sen (gen. n.) (1080)
256. *Liothrips aberrans* Muraleedharan & Sen (1080)
257. *Liothrips eugeniae artabotrys* Ananthakrishnan & Varadarasan (subsp. n.) (66)
258. *Liothrips machilus* Ananthakrishnan & Varadarasan (66)  
*Maxillithrips* Bhatti (gen. n.) (217)  
*Membrothrips* Bhatti (gen. n.) (217)
259. *Phorinothrips levis* Ananthakrishnan & Varadarasan (66)
260. *Podothrips canizoi* Bhatti (216)
261. *Thlibothrips inquilinus* Ananthakrishnan & Varadarasan (66)
- (ii) Family : Thripidae
262. *Dorcadothrips albus* Bhatti (216)
263. *Dorcadothrips flavidus* Bhatti (216)
264. *Dorcadothrips indicus* Bhatti (216)  
*Ranjana* Bhatti (gen. n.) (213)
- (10) Order : Coleoptera
- (i) Family : Anobiidae
265. *Byrrhodes baroniurbani* Espanol (476)
266. *Falsogastrallus stemmleri* Espanol (476)
267. *Gastrallus wittmeri* Espanol (476)  
*Nesocoelopus* Espanol (gen. n.) (476)
268. *Xyletinus wuermlii* Espanol (476)
- (ii) Family : Bostrychidae
269. *Xyloprista fisheri* Rai (1359)
- (iii) Family : Bruchidae
270. *Bruchidius arcuatipes* Decelle (397)
271. *Bruchidius baronii* Decelle (397)
272. *Bruchidius indigoferae* Singh & Saini (1821)
273. *Bruchidius wittmeri* Decelle (397)
274. *Bruchidius wuermlii* Decelle (397)
275. *Callosobruchus bhutanicus* Decelle (397)
276. *Caryedon arori* Singh & Saini (1821)
277. *Caryedon patialensis* Singh & Saini (1821)
278. *Spermophagus burseongensis* Decelle (397)
279. *Spermophagus stemmleri* Decelle (397)
- (iv) Family : Byturidae
280. *Byturus bhutanicus* Sengupta (1651)
- (v) Family : Cantharidae
- Asiosilis* Wittmer (gen. n.) (2122)

281. *Asiosilis basitestacea* Wittmer (2122)
282. *Asiosilis championi* Wittmer (2122)
283. *Asiosilis cochleata* Wittmer (2122)
284. *Asiosilis ekisi* Wittmer (2122)
285. *Asiosilis himalaica* Wittmer (2122)
286. *Asiosilis impressicornis* Wittmer (2122)
287. *Asiosilis infrapunctata* Wittmer (2122)
288. *Asiosilis infrapunctata assamensis* Wittmer (subsp. n.) (2122)
289. *Asiosilis kanaraensis* Wittmer (2122)
290. *Asiosilis manipurensis* Wittmer (2122)
291. *Asiosilis meridiana* Wittmer (2122)
292. *Asiosilis stachelini* Wittmer (2122)
293. *Asiosilis stylifera* Wittmer (2122)
294. *Asiosilis wuermlii* Wittmer (2122)
295. *Athemus* (s. str.) *bhutanensis* Wittmer (2124)
296. *Athemus* (s. str.) *kamjoensis* Wittmer (2124)
- Athemus* (*Andrathemus*) Wittmer (subgen. n.) (2124)
297. *Athemus* (*Andrathemus*) *purpurascens* Wittmer (2124)
298. *Athemus* (*Andrathemus*) *varipubens* Wittmer (2124)
- Leiothorax* Wittmer (gen. n.) (2125)
299. *Leiothorax kasmirensis* Wittmer (2125)
300. *Malthinus bhaumiki* Wittmer (2125)
301. *M. brunneomarginatus* Wittmer (2125)
- Malthinus* (*Indomalthinus*) *Brancucci* (2126)
302. *M. (Indomalthinus) bengalensis* Brancucci (2126)
303. *M. (I.) bhaktai* (2126)
304. *M. (I.) coxalis* (2126)
305. *M. (I.) tantricus* (2126)
306. *M. lopchuensis* Wittmer (2125)
307. *M. ramamensis* Wittmer (2125)
308. *Maltypus bengalicus* Wittmer (2126)
309. *Podistra longicornis* Wittmer (2125)
- Protomaltypus* Wittmer (gen. n.) (2126)
310. *Protomaltypus ghumensis* Wittmer (2126)
311. *P. godavariensis* Wittmer (2126)
312. *P. nepalensis* Wittmer (2126)
- (vi) Family : Carabidae
- Bhutanotrechus* Ueno (gen. n.) (2022)
313. *Bhutanotrechus reflexicollis* Ueno (2022)
314. *Carabus (Imaibius) baronii* Heinertz (640)
315. *C. (Lissauchenius) rufofemoratus bhutanicus* Mandl (subsp. n.) (966)
316. *C. (Meganebrius) epsteini* Heinertz (641)
317. *C. (Parameganebrius) davidsoni* Mandl (965)
318. *C. (Parimaibius) gridelii naranensis* Heinertz (641)
319. *C. (P.) kaghanensis* Heinertz (641)
320. *Ohlaenius (Amblygenius) wittmerianus* Mandl (966)
321. *C. (Chlaeniostenus) circumdatus subviridulus* Mandl (subsp. n.) (966)
322. *C. davidsoni* Mandl (966)
323. *C. (Macrochlaenites) costiger nigrotibitarsis* Mandl (subsp. n.) (966)
324. *C. nigrosuturatus* Mandl (966)
325. *C. rotundicollis* Mandl (966)
326. *Dromius (Lebidromius) bhutanensis* Ma teu (994)
327. *D. (L.) wittmeri* Mateu (994)
328. *Laemostenopsis wittmeri* Morvan (1055)
329. *Parena obscura* Mateu (994)
330. *P. quadrisignata* Mateu (994)

331. *Perileptus* (s. str.) *cylindriformis* Ueno (2022)
332. *Pristonychus* (*Cryptoxenus*) *wittmeri* Morvan (1055)
333. *Pterostichus bhutanensis* Morvan (1055)
334. *P. dorjulensis* Morvan (1055)
335. *P. imitatus* Morvan (1055)
336. *P. nigrovidaceus* Morvan (1055)
337. *P. pseudodoleus* Morvan (1055)
338. *P. wittmeri* Morvan (1055)
339. *Trechus* (s. str.) *bhutanicus* Ueno (2022)
340. *T.* (s. str.) *wittmeri* Ueno (2022)  
*Wittmerosphodrus* Morvan (gen. n.) (1055)
341. *Wittmerosphodrus walteri* Morvan (1055)
- (vii) Family : Cerambycidae
342. *Cleomenes apicalis* Holzschuh (644)
343. *Molorchus densepunctatus* Holzschuh (644)
- (viii) Family : Chrysomelidae
344. *Apophytia maculata* Kimoto (814)
345. *Arthrotus persimilis* Kimoto (814)
346. *Calomicrus fulva* Kimoto (814)
347. *Cneorane variabilis* Kimoto (814)
348. *Dercetina bhutanensis* Kimoto (814)
349. *Dercetina major* Kimoto (814)
350. *Dercetina punctipennis* Kimoto (814)
351. *Dercetina variabilis* Kimoto (814)
352. *Dercetina viridicyanea* Kimoto (814)
353. *Erganoides collaris* Kimoto (814)
354. *Hoplasoma carinata* Kimoto (814)
355. *Hoplosaenidea fulva* Kimoto (814)
356. *Hoplosaenidea persimilis* Kimoto (814)
357. *Livolia bengalensis* Basu & Sengupta (157)
358. *Livolia dakshina* Basu & Sengupta (157)
359. *Monolepta bhutanensis* Kimoto (814)
360. *Monolepta bimaculipennis* Kimoto (814)
361. *Monolepta himalayaensis postmaculata* (subsp. n.) Kimoto (814)
362. *Monolepta tricolorata* Kimoto (814)
363. *Oedicerus cyaneus* Kimoto (814)
364. *Paridea bhutanensis* Kimoto (814)
365. *Paridea fulva* Kimoto (814)
366. *Phratora moha* Daccordi (352)
367. *Pseudoliroetis elongata* Kimoto (814)
368. *Pyrhalta bhutanensis* Kimoto (814)
369. *Spitiella maculipennis* Kimoto (814)
370. *Stenoluperus bhutanensis* Kimoto (814)
371. *Stenoluperus major* Kimoto (814)
372. *Stenoluperus minor* Kimoto (814)
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 Morphology : 390.  
 Faunistic : 615.

**10. BRYOZOA**

Systematics : 1299.  
 Ecology : 1616.  
 Faunistic : 2006.

**11. BRACHIOPODA**

Systematics : 605.  
 Palaeozoology : 605.

**12. MOLLUSCA**

General : 44, 87, 411, 1348, 2090.  
 Systematics : 334, 895, 1372.  
 Physiology : 618, 659, 848, 850, 992, 1042,  
 1103, 1115, 1380, 1487, 1488,  
 1738, 1882.

Biochemistry : 21, 25, 26, 221, 519, 748,  
847, 849, 884, 1406, 1669, 1739.

Morphology : 461, 732.

Ecology : 44, 87, 1041, 1092, 1564, 1668,  
1881, 2090.

Biology & Reproduction : 45, 831, 1107,  
1469, 1470, 1954, 2037.

Economic value & Control : 21, 86, 89,  
124, 487, 565, 827, 1072, 1097,  
1417, 1470, 1584, 1932, 1991.

Faunistics & Zoogeography : 43, 719, 895,  
933, 1044, 1167, 1373, 1417, 1600,  
1944, 2083.

Palaeozoology : 605.

### 13. PENTASTOMIDA

Systematics : 765.

### 14. ARTHROPODA

#### (a) Trilobita

Systematics : 607.

Zoogeography : 1943.

#### (b) Arachnida

General : 803, 1158.

Systematics : 109, 154, 170, 211, 230, 236,  
249, 259, 601, 602, 603, 974, 975,  
1048, 1262, 1330, 1995, 1997,  
1998.

Morphology & Anatomy : 1347, 1999.

Physiology & Biochemistry : 101, 212,  
324, 698, 883, 993, 1127, 1490,  
2075.

Economic value & Control : 138, 362,  
369, 766, 901, 972, 985, 1067,  
1294, 1542, 1921, 1996, 2043.

Biology & Development : 947, 1109, 1537.

Ecology & Behaviour : 264, 854, 1221,  
1376, 1393, 1538.

Faunistics & Zoogeograph : 211, 566, 803,  
870, 1038, 1318, 1330, 1998.

Parasitology & Pathology : 184, 1478,  
1485, 1676, 1865, 1901.

Wildlife & Conservation : 1683.

#### (c) Crustacea

General : 267, 1501, 1530, 1661.

Systematics : 251, 313, 627, 1181, 1345,  
1481, 2010.

Morphology & Anatomy : 505, 645, 708,  
1168, 1578.

Physiology & Biochemistry : 47, 55, 325,  
326, 856, 1136, 1179, 1425, 1612,  
1656, 2019, 2097.

Economic value & Control : 487, 1388,  
1396, 1519.

Ecology : 434, 1124, 1131.

Biology & Development : 997, 1295, 1384,  
1578, 1686.

Faunistics & Zoogeography : 251, 312,  
769, 795, 1124, 1125, 1284, 1880,  
1913.

Parasitology & Pathology : 359, 1168,  
1294a, 1639, 1938, 1992.

Genetics : 541, 1688.

Embryology & Reproduction : 493, 1132.

Palaeozoology : 195, 1791.

#### (d) Myriapoda

Physiology : 147, 1614.

Anatomy : 383.

#### (e) Insecta

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General : : 241, 1084.

Economic value & Control : 115, 164, 165,  
238, 255, 316, 353, 444, 514, 728,  
766, 829, 932, 1224, 1294, 1394,  
1567, 1577, 1619, 1771, 1786,  
2042, 2079, 2080.

Ecology & Behaviour : 300, 802, 903, 1772, 1780.

Biochemistry : 389.

Wildlife : 1549.

(i) **Collembola**

Morphology : 1968.

Ecology & Behaviour : 637, 638, 1081, 1825.

(ii) **Ephemeroptera**

Systematics : 646.

(iii) **Odonata**

Systematics : 916.

Morphology : 1324.

Histochemistry : 999.

Faunistics & Zoogeography : 861, 2020.

Pathology : 1393.

(iv) **Plecoptera**

Systematics : 2158.

(v) **Orthoptera**

Systematics : 1514, 1748, 1749, 1750.

Physiology & Biochemistry : 56, 142, 143, 144, 451, 599, 1174, 1343, 1451, 1689, 2094, 2145.

Morphology & Anatomy : 560, 942, 1082, 1754, 2074.

Cytology & Cytochemistry : 730, 1119, 1172, 1382, 1691, 1692.

Histology : 1159, 1173.

Ecology & Behaviour : 290, 948, 1016, 1443, 1511, 1785, 1806, 1966, 2073.

Embryology : 136.

Biology & Development : 623, 1052, 1083, 1837.

Economic value & Control : 111, 664, 746, 1149, 1508, 1763.

Faunistics & Zoogeography : 1482, 2052.

(vi) **Dermaptera**

Systematics : 1895.

Biology : 1268.

(vii) **Dictyoptera**

Physiology & Biochemistry : 218, 805, 1138, 1336, 1341, 1428, 1986, 2095.

Cytology : 804.

Histochemistry : 954, 1139.

Genetics : 1752.

Biology : 920.

Pathology : 200.

(viii) **Isoptera**

Systematics : 1517.

Physiology : 17.

Economic value & Control : 312, 322, 456, 561, 1252, 1254, 1655.

Ecology & Behaviour : 18, 1510, 1512, 1513, 1516, 1978, 1980.

Development : 1507.

Faunistics & Zoogeography : 1253, 1510, 1515, 1980.

(ix) **Psocoptera**

Systematics : 1183, 1184, 1185, 1186.

(x) **Phthiraptera (Mallophaga)**

Systematics : 894, 1367.

(xi) **Anoplura (Siphunculata)**

Systematics : 1021.

(xii) **Hemiptera**

General : 374, 1592, 1593.

Systematics : 69, 90, 185, 250, 265, 268, 392, 506, 507, 509, 633, 1077, 1078, 1351, 1444, 1445, 1446, 1479, 1480, 1682, 2146.

Physiology & Biochemistry : 54, 131, 169, 276, 489, 490, 557, 790, 794, 797, 984, 1076, 1536, 1838, 1899, 1900, 2017, 2049.

Morphology & Anatomy : 19, 30, 31, 262, 809, 919, 1702, 1983.

Cytology : 890, 2076.

Biology & Development : 869, 1079, 1638, 2136.

Embryology : 1796.

Economic value & Control : 3, 5, 15, 283, 291, 297, 343, 422, 465, 471, 510, 555, 572, 617, 673, 693, 733, 757, 822, 877, 979, 1000, 1024, 1031, 1126, 1193, 1195, 1216, 1250, 1361, 1365, 1449, 1478, 1571, 1572, 1575, 1594, 1664, 1765, 1766, 1768, 1769, 1770, 1787, 1801, 1805, 1853, 1963, 1964, 2034, 2038, 2044, 2068, 2086, 2087, 2099.

Ecology & Behaviour : 34, 68, 248, 358, 488, 520, 721, 1219, 1362, 1402, 1570, 1981, 1984.

Parasitology & Pathology : 113, 937, 978, 980, 1851.

Faunistics & Zoogeography : 158, 185, 229, 240, 250, 509, 633, 963, 1030, 1051, 1077, 1477, 1479, 1645, 1817, 1982.

#### (xiii) Thysanoptera

Systematics : 64, 66, 213, 214, 215, 216, 217, 1080.

Economic value & Control : 63, 758, 1004, 1047, 1162, 1293, 2120.

Ecology & Behaviour : 62, 2059.

Faunistics & Zoogeography : 64, 65, 1642.

#### (xiv) Coleoptera

General : 127, 763, 821, 1633.

Systematics : 95, 157, 167, 171, 172, 348, 349, 352, 397, 476, 640, 641, 644, 703, 713, 814, 921, 965, 966, 994, 1007, 1055, 1069, 1359, 1613, 1634, 1635, 1649, 1650, 1651, 1652, 1653, 1821, 1852, 1909, 2022, 2057, 2122, 2124, 2125, 2126.

Physiology & Biochemistry : 60, 744, 745, 917, 1211, 2061.

Morphology & Anatomy : 1156, 1209, 1734, 1775, 1819, 1820, 1969, 2029, 2056, 2058, 2103.

Cytology : 2131, 2132.

Economic value & Control : 23, 36, 72, 96, 203, 204, 205, 283, 289, 294, 309, 310, 368, 428, 429, 463, 667, 715, 734, 777, 778, 808, 816, 868, 900, 918, 998, 1192, 1198, 1215, 1218, 1322, 1325, 1484, 1509, 1580, 1632, 1654, 1728, 1762, 1788, 1789, 1805, 1815, 1928, 2046, 2064, 2065, 2066, 2069, 2088, 2105, 2130, 2141.

Ecology & Behaviour : 4, 176, 462, 464, 1029, 1237, 1360, 1486, 1563, 1630, 1735, 1831, 1887, 1970, 1971.

Biology & Development : 423, 544, 552, 891, 1212, 1363, 1447, 2102, 2139.

Faunistics & Zoogeography : 7, 61, 97, 345, 665, 958, 1191, 1207, 1217, 1547.

Genetics : 2000.

Parasitology & Pathology : 731, 1269, 1562, 1766, 2008, 2106.

#### (xv) Strepsiptera

Systematics : 314.

#### (xvi) Siphonaptera

Parasitology : 1032.

(xvii) **Diptera**

General : 1223.

Systematics : 327, 350, 386, 401, 569, 716, 717, 718, 755a, 1140, 1313, 1714, 1844.

Morphology & Anatomy : 878, 879, 2151, 2152.

Cytology & Cytochemistry : 108, 772, 1424, 1690, 1693.

Physiology & Biochemistry : 299, 705, 791, 1145, 1202, 1245, 1312, 1371, 1588, 1889.

Ecology & Behaviour : 371, 373, 375, 773, 815, 930, 1040, 1494, 1495, 1498, 1500, 1522, 1718, 1727, 1741, 1855, 2133.

Economic value & Control : 6, 206, 283, 512, 724, 852, 853, 887, 1017, 1031, 1114, 1147, 1233, 1340, 1353, 1364, 1411, 1438, 1465, 1493, 1525, 1601, 1664, 1736, 1807, 1898, 1922, 1990, 2030, 2110.

Biology & Development : 85, 107, 387, 398, 496, 1344, 1499.

Genetics : 35, 126, 1381, 1492, 1506, 1554.

Faunistics & Zoogeography : 384, 651, 661, 800, 857, 859, 929, 931, 1039, 1311, 1840.

Parasitology & Pathology : 139, 380, 798, 1278, 1308, 1485, 1526, 1555, 1807, 2008.

(xviii) **Lepidoptera**

General : 307.

Systematics : 439, 1208, 1518.

Physiology & Biochemistry : 187, 260, 261, 331, 340, 354, 413, 414, 445, 546, 810, 811, 949, 1150, 1243-1249, 1401, 1929, 1933, 1934, 2060, 2085.

Morphology & Development : 406, 558, 559, 1303, 2150.

Ecology & Behaviour : 308, 770, 771, 910, 1009, 1085, 1148, 1466, 1569, 2089.

Economic value & Control : 23, 110, 112, 114, 132, 141, 182, 224, 257, 456, 483, 543, 549, 564, 666, 669, 722, 729, 750, 758, 818, 828, 855, 867, 882, 892, 972, 988, 989, 1002, 1003, 1005, 1050, 1056, 1071, 1074, 1100, 1146, 1170, 1176, 1177, 1178, 1196, 1197, 1222, 1232, 1264, 1288, 1307, 1364, 1366, 1379, 1411, 1448, 1449, 1496, 1555, 1566, 1568, 1573, 1574, 1581, 1596, 1597, 1598, 1664, 1743, 1767, 1774, 1790, 1793, 1794, 1818, 1866, 1897, 1903, 1935, 1987, 2034, 2041, 2050, 2063, 2068, 2104, 2107, 2134, 2135, 2140.

Biology & Development : 224, 225, 226, 275, 278, 279, 282, 631, 668, 671, 723, 844, 936, 1025, 1085, 1148, 1194, 1304, 1374, 1411, 1442, 1466, 1611, 1646, 1687, 1720, 1737, 1740, 1940, 2040.

Cytology & Genetics : 388, 714, 1175.

Histology & Histochemistry : 20, 504, 1684.

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Parasitology & Pathology : 166, 329, 387, 669, 872, 1151, 1152, 1177, 1178, 1555, 1591, 1776, 1865, 1993, 2140.

(xix) **Trichoptera**

Morphology : 1609.

(xx) **Hymenoptera**

General : 83, 1220, 1223, 1556, 1558, 1643, 1672, 1674.

Systematics : 191, 243, 244, 284, 510, 598, 609, 635, 636, 807, 846, 1059, 1060, 1111, 1210, 1556, 1558, 1585, 1586, 1620, 1719, 1733, 1907, 1908, 1914, 2031, 2032, 2033.

Biochemistry : 2048.

Morphology : 1557.

Ecology & Behaviour : 1, 10, 647, 941, 1122, 1289, 1434, 1675, 1925.

Economic value & Control : 2, 82, 548, 940, 1023, 1099, 1220, 1289, 1326, 1334, 1342, 1591, 1977, 1933, 2084.

Biology & Development : 1, 10, 346, 408, 663, 681, 1110, 1112, 1194, 1383, 1676, 1993.

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Parasitology & Pathology : 2, 177, 257, 663, 1346, 1496, 1498, 1591, 1676, 1678, 1807, 2140.

## 15. ECHINODERMATA

Faunistics : 86, 1015.

Palaeozoology : 605.

## 16. HEMICHORDATA

Physiology : 116.

## 17. PROTOCHORDATA

Faunistics : 1207.

## 18. CHORDATA

### (a) Pisces

General : 707, 1018, 1019, 1098, 1131, 1135, 1408, 1661, 1721.

Systematics : 120, 121, 587, 685, 695, 697, 893, 1020, 1201, 1273, 1392, 1395, 1407, 1420, 1799, 1956, 1957, 1958, 1961, 1978, 2002, 2004.

Morphology & Anatomy : 134, 466, 613, 851, 1075, 1230, 1272, 1636, 1640, 1930, 2147.

Physiology & Biochemistry : 22, 28, 29, 39, 103, 140, 148, 174, 178, 210, 277, 355, 365, 366, 391, 500, 536, 537, 624, 764, 779, 780, 824, 830, 995, 1006, 1070, 1229, 1241, 1280, 1350, 1370, 1409, 1410, 1412, 1504, 1587, 1602, 1603, 1604, 1605, 1606, 1622, 1624, 1627, 1641, 1671, 1681, 1894, 1906, 2072, 2098.

Histology & Histochemistry : 59, 239, 355, 876, 1019, 1636.

Cytology : 813, 1502.

Biology & Development : 364, 379, 399, 419, 692, 1143, 1274, 1279, 1368, 1668, 1890.

Parasitology : 146, 680, 1391, 1884.

Histopathology : 1607, 1608.

Pathology : 525, 689, 1467, 1503, 1896, 1937, 1938.

### (b) Amphibia

Systematics : 1296, 1297.

Anatomy : 1188, 1189.

Physiology & Biochemistry : 102, 228, 328, 485, 531, 533, 550, 688, 951, 991, 1049, 1116, 1187, 1310, 1335, 1421, 1483, 1623, 1641, 1947.

Biology : 470.

Behaviour : 532.

Control : 1755.

Histochemistry : 296, 1948.

Endocrinology : 245, 1751.

Faunistics & Zoogeography : 457, 1086.  
Pathology : 447, 1440, 1755.

(c) **Reptilia**

General : 155, 183, 608, 1087.  
Systematics : 233, **459**, 702, **1710**.  
Physiology & Biochemistry : 254, 367, 454,  
873, 928, 1205, 1242, 1637, 1677.  
Anatomy : 1753, 2113.  
Histology & Histochemistry ; 145, 1001,  
1281, 1541, 1948.  
Biology : 521, 702, 1677.  
Ecology & Behaviour : 202, 234, 495, 1781,  
2116.  
Economic value : 2118.  
Reproduction : 8, 77, 232, 1489.  
Wildlife & Conservation : 433, 608, 1088,  
1089, 2115.  
Faunistic & Zoogeography : 38, 475, 477,  
1086, 1090, 1644, 1955, 2117.

(d) **Aves**

General : 46, 67, 80, 173, 351, 480, 481, 586,  
699, 784, 786, 796, 826, 888, 959,  
1034, 1064, 1286, 1576, 1628,  
1912, 2009, 2018, 2121, 2112.  
Systematics : 909.  
Morphology & Anatomy : 453.  
Physiology & Biochemistry : 27, 40, 119,  
223, 280, 281, 342, 344, 372, 553,  
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996, 1300, 1301, 1435, 1452, 1553,  
1589, 1641, 1802, 1803, 1953,  
2138, 2142, 2143, 2144.  
Histochemistry : 1953.  
Biology & Development : 508, 619, 906,  
1165, 1812.  
Ecology & Behaviour : 201, 361, 431, 438,  
443, 658, 660, 783, 785, 862, 906,  
952, 1390, 1628, 1629, 1920, 2078,  
2148.

Economic value & Control : 71, 675, 938,  
1165, 1166, 1231, 1414, 1418,  
1761, 2077.

Genetic : 1761.

Reproduction : 100, 1628, 1985.

Wildlife & Conservation : 1292, 1354, 1419,  
1464, 1543, 1544, 1549, 2009,  
2112.

Faunistics & Zoogeography : 335, 336, 404,  
432, 551, 784, 1292, 1559, 1658,  
1659, 1669, 1746, 1912, 1919,  
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Population : 2119.

Parasitology : 163, 776.

Pathology : 363, 1043, 1141, 1355, 1458,  
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(e) **Mammalia**

General : 52, 74, 75, 78, 84, 179, 377, 430,  
472, 473, 474, 478, 571, 628, 647,  
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1064, 1161, 1680, 1756, 1911,  
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Systematics : 156, 235, 270, **272**, 273, 347,  
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Morphology & Anatomy : 135, 137, 153, 274,  
610, 653, 732, 955, 1225, 1266,  
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Physiology & Biochemistry : 13, 14, 16, 24,  
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- Biology & Development :** 220, 407, 526, 527,  
530, 700, 710, 957, 1010, 1053,  
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- Ecology & Behaviour :** 123, 180, 193, 201,  
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- Economic value & Control :** 12, 73, 76, 98,  
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- Histology & Histochemistry :** 93, 94, 441,  
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- Cytology & Cytochemistry :** 845, 924, 983,  
1694, 1695, 1923.
- Genetics :** 263, 585, 840, 875, 1235, 1450,  
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- Endocrinology :** 534, 967, 1102.
- Reproduction :** 9, 11, 188, 189, 209, 412, 817,  
833, 960, 1199, 1474, 1531, 1590,  
1621, 1631, 1666, 1711, 1764,  
1804, 1826, 1962, 1973, 2108.
- Faunistics & Zoogeography :** 271, 402, 478,  
643, 899, 1046, 1548, 1861, 1862.
- Wildlife & Conservation :** 52, 75, 377, 430,  
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- Population :** 511, 1468.
- Parasitology :** 370, 1716, 1836, 2024, 2025,  
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- Pathology :** 37, 58, 175, 198, 222, 231, 266,  
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- Gulf of Mannar : 45, 404, **893**, 905, 1128, 1373, 1600.
- Haryana : 106, **576**, 577, **578**, 582, **975**, 1091, 1498, 1499.
- Himachal Pradesh : **191**, **265**, 282, **284**, 285, 287, 343, **506**, 606, **609**, 706, **975**, **1060**, 1064, 1208, 1547, **1650**, **1719**, 1733, **1909**, 1913, 2007, **2122**, **2123**.
- Himalaya : **265**, **268**, 377, **506**, 857, 861, 903, 907, 1324, 1510, 1718, 1980, 2003, 2006.
- Indian Coast/Seas/Oceans/Peninsula : 38, **251**, 615, 670, 685, 997, 1014, 1062, 1267, 1284, 1294a, 1295, 1513, 1579.
- Jammu & Kashmir : 82, 153, 171, 457, **598**, **605**, **607**, 781, 940, 941, 1141, **1445**, 1672, 1674, 1675, 1676, 1682, 1733, 1907, 1958, **2032**, **2125**.
- Karnataka : 66, 97, 133, **216**, **230**, **327**, 393, **416**, **417**, 532, 542, **601**, **602**, **609**, 626, 740, **755a**, **792**, 819, 866, 977, 979, 980, **1059**, **1111**, 1114, 1164, 1223, 1224, **1313**, 1323, 1352, 1357, 1360, 1362, 1375, 1376, 1388, 1486, 1525, 1577, 1584, **1586**, 1658, 1855, 1876, 1972, 1988, **1995**, **1997**, 2065, 2069, 2078, **2122**.
- Kerala : 4, 7, 62, **66**, 97, 130, 325, 326, **392**, **596**, **601**, 709, 769, 923, **1078**, 1081, 1130, 1132, 1155, 1168, 1294, **1344a**, 1460, **1480**, **1586**, 1662, 1982, 2102.
- Lakshadweep : 183, **627**, 1015, 1497, 1524, 1673, 2114.
- Madhya Pradesh : 79, 456, 651, 727, 904, 1786, 1839, 1840.

- Maharashtra : 97, 122, 174, 177, 336, **609**, 692, 785, 827, 838, 858, 906, **927**, 929, **975**, 1039, 1040, **1059**, **1060**, 1288, **1299**, 1417, 1456, 1516, 1578, **1585**, **1586**, **1620**, **1714**, 1719, 1727, 1954, **1995**, 2148.
- Maldivé Islands : **1481**, 1912.
- Manipur : **603**, 1065, **1479**, **1620**, 1782, **2122**.
- Meghalaya : **154**, **170**, 235, **509**, **510**, **603**, 899, **1446**, 1640, **1995**-
- Mizoram : 1314.
- NEPAL : **109**, 227, 237, **350**, **641**, 821, **965**, **966**, 1032, **1059**, **1620**, 1974, **2031**, **2033**, **2122**, **2124**, **2126**.
- Northern India : 167, **506**, **507**, 2020.
- North-East India : 19, 162, 374, 1067, 1216, 1277, 1478.
- North-West India : 95, 1559.
- Oriental Region : 107, **213**, 215, 1183, 1184, 1512.
- Orissa : **157**, **596**, 825, 1175, 1278, 1279, **1431**, **1476**, 1519, 1645.
- PAKISTAN : 30, 31, 43, 46, 136, 156, **170**, 250, 252, 256, 312, **313**, 401, 505, **506**, **507**, 513, **640**, **641**, 654, 655, 656, 662, 663, 664, 793, 797, 937, 956, 1019, **1020**, 1050, 1342, 1494, 1495, **2010**, **2146**.
- Panjab : 127, **216**, 423, 548, **573**, **582**, 592, 802, **974**, 981, 1038, **1359**, **1566**, 1567, 1571, 1705, **1749**, **1821**, 1853, 1861, 1864, 1928.
- Pondichery : 97, 484, 1017.
- Rajasthan : 203, **587**, 634, 799, **806**, 808, 896, 939, **1134**, 1253, 1415, 1515, 1618, **1710**, 1762, 1843, 1955, 2133.
- Sikkim : 12, 158, 384, 963, 1051, 1477, **1479**, **1649**-
- South-West Coast : 1093, 1871.
- South India : 192, **545**, 787, 910, **1297**, **1345**.
- SRI LANKA : 409, 410, 443, 475, 556, 697, 700, 701, **893**, **1181**, 1183, **1186**, 1292, 1420, 1558, 1746, **2033**, **2122**.
- Tamil Nadu : 67, **69**, 97, 152, **157**, **191**, 292, 359, 437, 511, 532, **601**, **602**, **609**, 743, 796, **837**, 895, 912, 933, 986, 1016, 1048, **1059**, **1077**, **1078**, 1086, 1130, 1260, 1388, 1523, 1525, 1526, **1620**, 1668, 1718, **1719**, 1846, 1880, 1881, 1982, 1992, **1995**, 2023, 2117, **2122**.
- Uttar Pradesh : **171**, **191**, **216**, 229, 231, **265**, **268**, **334**, 376, 378, 379, 501, 506, 520, 571, 575, **594**, **595**, **609**, **636**, 650, 684, **720**, 725, **792**, 798, **806**, 870, 908, 909, 958, **975**, 1030, **1059**, **1069**, **1111**, 1160, 1193, 1353, 1390, 1414, 1484, **1586**, **1620**, 1719, 1735, **1748**, **1750**, 1770, 1777, 1783, 1784, **1816**, 1885, **1905**, **1976**, 1979, **2005**, 2020, 2044, 2090, 2121, **2122**, **2123**.
- West Bengal : **33**, **70**, 139, **152**, 165, **172**, **191**, 208, **211**, 212, 216, **259**, 297, 304, **327**, 330, 375, **397**, 569, 616, 637, 638, 684, 686, 813, 857, 921, 931, **962**, **1059**, **1060**, **1069**, **1080**, **1111**, **1140**, 1318, 1351, 1447, 1469, 1477, **1479**, 1546, 1561, 1586, 1644, **1650**, 1685, 1686, **1808**, 1809, **1832**, **1833**, **1844**, **1908**, 1917, **1995**, **1997**, 2011, **2122**, **2125**, **2126**.
- West Coast of India : 1497.
- Western India : **893**.