SUMMARY

The thesis entitled: "Studies on certain parasitic Protozoans and Crustaceans of fresh water fishes" comprises 116 pages. The thesis is divided into 2 parts. Part A deals with parasitic protozoans while Part B deals with parasitic crustacean. Each part has its own introduction, historical review, material and method, observation, discussion and references. The observations are illustrated with 19 figures. The diagrams are made by the author for which she is solely responsible.

PART - A

The chapter includes description of 6 new protozoans.

1. *Trypanosoma meerutensis* n.sp. has been collected and described from the blood of *Mystus vittatus* (Bloch) at Meerut. The present form is characterised by the size of flagellum, position of nucleus, granular nature of cytoplasm and terminal position of kinetoplast.

2. *Nosema channi* n.sp. is collected and described from the liver of *Channa punctatus* (Bloch) at Allahabad. The present form is characterised on the basis of spore morphology.

3. *Myxidium attu* n.sp. is collected and described from the gall bladder of *Wallago attu* (Bloch), at Meerut. The present form is characterised by the morphometrics of the spore with reference to longitudinal striations.
4. Protopoolina meerutensis n.sp., is collected and described from the gut of *Notopterus notopterus* (Pallas) at Meerut. The present form is characterised by the shape of nucleus, position of nucleus and number of spiral thickenings.

5. Loma meerutensis n.sp., is collected and described from the gills of *Channa punctatus* (Bloch), at Meerut. The new species is characterised by the smaller sizes of spores and length of flagellum.

6. Cepedeia agarwalii n.sp., is collected and described from the intestine of *Rita rita* (Ham.), at Lucknow. The present form is characterised by having different shape of body and alveolar cytoplasm.

**PART - B**

The chapter includes description of ten new parasitic crustaceans.

1. *Argulus magadhensis* n.sp., is collected and described from the gills of *Catla catla* (Bloch), at Bodh Gaya, Bihar. The new species is characterised by shape of body, length of urosome and ratio of cephalothorax and abdomen.

2. *Argulus ovatus* n.sp., is collected and described from the gill filaments of *Rita rita* (Ham.) at Meerut. The new species is characterised by body shape, ratio of body segments and presence of spines on Carapace.
3. *Ergasilus meerutensis* n.sp. is collected and described from the gill filaments of *Wallago attu* (Bloch) at Meerut. The new species is characterised by the absence of large articulating spine, size of body and shape of antenna.

4. *Lamproglena lucknowensis* n.sp. is collected and described from the gills of *Notopterus motopterus* (Pallas) at Lucknow. The new species is characterised by the ratio of head and trunk and length of egg string.

5. *Eudactylinia tripathii* n.sp. is collected and described from the gills of *Hilsa ilisha* (Ham.) at Meerut. The present form is characterised by the absence of spines on the body, and equal sizes of abdominal segments.

6. *Caligus catlai* n.sp., is collected and described from the gills of *Catla catla* (Ham.), at Lucknow. The new species is characterised by difference in general topography of organs, shape of maxilla and pre-maxilla.

7. *Pseudocycnus singhi* n.sp., is collected and described from the gill filaments of *Chela bacaele* (Ham.), at Lucknow. The new species is characterised by the ratio of body and head and shape of legs.

8. *Mugicola wallagonius* n.sp., is collected and described from the gills of *Wallago attu* (Bloch), at Lucknow. The new species is characterised by having sharply divided cephalon, mandible with 4 teeth and 3 pairs of legs with claws.
9. *Telson chauhani* n.sp., is collected and described from gills of *Channa punctatus* (Bloch), at Meerut. The new species is characterised by the ratio of cephalothorax and 2nd body segment, having 2 segmented abdomen and presence of long hooks.

10. *Lernanthropus lucknowensis* n.sp., is collected and described from the gills of *Mystus vittatus* (Ham.), at Lucknow. The present form is characterised by the difference in ratio of anal and lanural body and shape of legs.

At the end of chapters a list of papers consulted during the work has been appended.

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