arti laind in pointed & be 2015 moundries to say tolde

M.Sc. Part-I Examination ZOOLOGY

PAPER-I (Group-B)

Full Marks: 50

Time: 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group-B

Answer any four questions taking two from each unit.

Unit—I

(Applied Zoology)

1. Mention the general characters of Insects. Classify the following insects upto order:

Cockroach, Honeybee, Housefly, Cricket, tiger beetle, silkmoth.

 $4+8\frac{1}{2}$

2. State the importance of biofertilizer. In vermitechnology which type of earthworms are used? Mention in brief the process of vermicom posting.

 $4+2+6\frac{1}{2}$

3. State the difference between capture and culture fisheries. Discuss the present status and prospect of marine fisheries of shell fishes.

Answer any four quantities taking the newark

1. Mention the general characters of Insects. Classify the

Cockroach, Honeybee, Housefly, Cricket, tiger bettle,

where the figures in the margin radicate full marks

4. Write short notes (any three) :

 $4\frac{1}{2}+4+4$

- (a) Ecydyson;
- (b) Peritrophic membrane;
- (c) IPM;
- (d) Bee-hive;
- (e) Eusociality in termites.

In Write short notes on a II-jiny of the following

(Biosystematics)

- 5. (i) Define binomial and trinomial nomenclature;
 - (ii) Define Law of priority;
 - (iii) Discuss biochemical aspects of taxonomic study.

sboomd simonoxs $3+3+6\frac{1}{2}$

(b) Linnsean hierarchy.

- 6. (i) Define microtaxonomy & macrotaxonomy.
 - (ii) Add a note on different stages of taxonomy.
 - (iii) Discuss isolating process in allopatric speciation.

4+3+51

- 7. (i) Define Species Concept.
 - (ii) Which species concept os more acceptable and why?
 - (iii) Give an idea about Sympatric speciation.
 - (iv) Add a note on Sibling Species.

 $2\frac{1}{2} + 3 + 4 + 3$

8.	Write	short	notes	on	anv	three	of	the	following	
0.	AATICC	SHOLL	11016	OII	ally	unce	OI	CIAC	TOMOWING	

 $4\frac{1}{2}+4+4$

(a) International Code of Zoological Nomenclature.

Ill Define inlerotaxonou to the acrotaxonom:

(ii) Add a note on different stages of taxonomy.

- (b) Linnaean hierarchy.
- (c) Type Concept.
- (d) Taxonomic barcode.
- (e) Role of taxonomy in Agriculture.

- - hy Add a note on Sibling Species.