

Total No. of Questions : 05]

**DZOO01**

**M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2019  
(First Year)  
ZOOLOGY**

**Systematics and Anatomy of Invertebrates**

**Time : 3 Hours**

**Maximum Marks : 70**

Answer All Questions.

All questions carry equal marks.

**Q1)** a) Describe the general organization of Protozoa.  
OR

- b) Write short notes on  
i) Classification of Porifera.  
ii) Reproduction of Protozoa.

**Q2)** a) Give a detailed account on Polymorphism in Coelenterates.  
OR

- b) Write Short notes on  
i) Parasitic adaptations of Cestodes.  
ii) Classification of Nematelminthes.

**Q3)** a) Give a detailed account on evolutionary Significance of trochophore larve.  
OR

- b) Write Short notes on  
i) Classification of annelida.  
ii) General organization of arthropoda.

**Q4)** a) Give a detailed account on the general characters of phylum mollusca.  
OR

- b) Write Short notes on  
i) Classification of echinodermata.  
ii) Larval forms of echinoderms.

**Q5)** a) Describe the general organization of Rotifera.  
OR

- b) Write Short notes on  
i) Chaetognatha.  
ii) Ectoprocta.



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**DZOO02**

**M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2019  
(First Year)  
ZOOLOGY**

**Systematics&Anatomy of Chordates&Gamete Biology**

**Time : 3 Hours**

**Maximum Marks : 70**

Answer All Questions.

All questions carry equal marks.

- Q1)** a) Give a detailed account on the specialized characters of urochordata.  
OR  
b) Write Short notes on  
i) Hemichordata.  
ii) General characters of Chordates.
- Q2)** a) Give an account on poisonous snakes of India.  
OR  
b) Write short notes on  
i) Migration of fishes.  
ii) General characters of amphibia.
- Q3)** a) Give an account on flightless birds.  
OR  
b) Write short notes on  
i) Archaeopteryx  
ii) General Characters of Aves.
- Q4)** a) Give a detailed account on adaptive radiation in mammals.  
OR  
b) Write short notes on  
i) South Indian mammals.  
ii) Aquatic adaptations of mammals.
- Q5)** a) Give an account of Spermatogenesis.  
OR  
b) Write Short notes on  
i) Ovum.  
ii) Fertilization.



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**DZOO03**  
**M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2019**  
**(First Year)**  
**ZOOLOGY**

**Cell Biology, Genetics and Evolution**

**Time : 3 Hours      Maximum Marks : 70**

Answer all Questions carry equal marks.

**Q1)** a) Give an account on Endoplasmic reticulum.  
OR

b) Write short notes on :  
i) Cell membrane.  
ii) Mitochondria.

**Q2)** a) Give an account on transfer RNA and ribosomal RNA.  
OR

b) Write short notes on :  
i) m- RNA.  
ii) Protein Synthesis.

**Q3)** a) Write an essay on Giant Chromosomes  
OR

b) Write short notes on :  
i) Mitosis.  
ii) Chromosome structure.

**Q4)** a) Give a detailed account on Sex determination  
OR

b) Write short notes on  
i) Mendelian laws.  
ii) Multiple alleles.

**Q5)** a) Give an account on species concepts  
OR

b) Write short notes on :  
i) Hardyweinberg law.  
ii) Isolation.



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**DZOO04**

**M.Sc. DEGREE EXAMINATION, JUNE/JULY - 2019**  
**(First Year)**  
**ZOOLOGY**

**Animal Ecology and Wildlife**

**Time : 3 Hours**

**Maximum Marks : 70**

Answer All Questions.  
All carry equal marks.

**Q1)** a) Give an account on light penetration and the factors affecting light availability in natural waters.

OR

- b) Write Short notes on  
i) Feedback loop  
ii) Nature and Scope of ecology

**Q2)** a) Give an account on biogeochemical cycle of phosphorus.

OR

- b) Write short notes on :  
i) Liebig's law of the minimum.  
ii) Food Chains.

**Q3)** a) Give an account on interspecific competition and coexistence.

OR

- b) Write short notes on :  
i) Ecological niche.  
ii) Commensalism.

**Q4)** a) Give an account on density dependent action in population control.

OR

- b) Write short notes on :  
i) Population growth form.  
ii) Properties of population group.

**Q5)** a) Give an account on biosphere reserves and wildlife Projects in India.

OR

- b) Write short notes on :  
i) National parks.  
ii) World Wildlife Fund.

