

(DZOO01)

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M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2018

(First Year)

ZOOLOGY

Systematics and Anatomy of Invertebrates

Time : 03 Hours

Maximum Marks : 70

Answer all questions

All questions carry equal marks

Q1) a) Give a detailed account on general organization of Protozoa.

OR

b) Write short notes on:

- i) Spicules in porifera.
- ii) Regeneration in sponges.

Q2) a) Give an account on polymorphism in coelenterates.

OR

b) Write short notes on:

- i) General characters of Cestodes.
- ii) Parasitic adaptations of Trematodes.

Q3) a) Give an account on respiration in Arthropoda.

OR

b) Write short notes on:

- i) Classification of annelida.
- ii) Trochophore larve.

Q4) a) Give an account on general organization of Mollusca.

OR

b) Write short notes on:

- i) Water vascular system in Echinodermata.
- ii) Bipinnaria larva.

Q5) a) Give a detailed account on general organization of Chaetognatha.

OR

b) Write short notes on:

- i) Ectoprocta.
- ii) Sipuncula.



(DZOO02)

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M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2018

(First Year)

ZOOLOGY

Systematics and Anatomy of Chordates & Gamete Biology

Time : 03 Hours

Maximum Marks : 70

Answer all questions

Each question carry equal marks

Q1) a) Give an account on general characters of Hemichorda.

OR

b) Write short notes on:

i) Characters of Chordates.

ii) Urochordata.

Q2) a) Give an account on Parental care in Fishes.

OR

b) Write short notes on:

i) Poisonous snakes.

ii) Classification amphibia.

Q3) a) Give an account on common birds of India.

OR

b) Write short notes on:

- i) Archaeopteryx.
- ii) General characters of aves.

Q4) a) Give an account on adaptative radiation in mammals.

OR

- b) Write short notes on:
 - i) Aquatic adaptations of mammals.
 - ii) General characters of mammals.

Q5) a) Write an essay on Oogenesis.

OR

- b) Write short notes on:
 - i) Fertilization.
 - ii) Sperm.



(DZOO03)

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M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2018

(First Year)

ZOOLOGY

Cell Biology, Genetics and Evolution

Time : 03 Hours

Maximum Marks : 70

Answer all questions

All questions carry equal marks

Q1) a) Give an account on Mitochondria.

OR

b) Write short notes on:

i) Golgi complex.

ii) Plasma membrane.

Q2) a) Give an account on Protein synthesis.

OR

b) Write short notes on:

i) DNA.

ii) t RNA.

Q3) a) Give an account on abnormalities of the Chromosomes.

OR

b) Write short notes on:

- i) Mitosis.
- ii) Chromosome structure.

Q4) a) Give an account on multiple alleles.

OR

- b) Write short notes on:
- i) Sex determination.
 - ii) Interaction of genes.

Q5) a) Give an account on theories of evolution.

OR

- b) Write short notes on:
- i) Isolation.
 - ii) Biological species concept.



(DZOO04)

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M.Sc. (Previous) DEGREE EXAMINATION, DECEMBER - 2018

(First Year)

ZOOLOGY

Animal Ecology and Wildlife

Time : 3 Hours

Maximum Marks : 70

Answer all questions

All questions carry equal marks

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

OR

b) Write short notes on:

i) Thermal stratification.

ii) Feed-back loop.

Q2) a) Give an account on concept of productivity.

OR

b) Write short notes on:

i) Food chains.

ii) Ecological Pyramids.

Q3) a) Give an account on concepts of habitat and ecological niche.

OR

b) Write short notes on:

- i) Parasitism.
- ii) Commensalism.

Q4) a) Give an account on population control methods.

OR

- b) Write short notes on:
 - i) Basic concepts of rates.
 - ii) Optimization.

Q5) a) Give an account on IUCN classification of rare animals.

OR

- b) Write short notes on:
 - i) Hot Spots.
 - ii) Threatened species.

