

(DZOO01)

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M.Sc. DEGREE EXAMINATION, MAY – 2017

(First Year)

ZOOLOGY

Systematics and Anatomy of Invertebrates

Time : 3 Hours

Maximum Marks : 70

Answer all questions

All questions carry equal marks

Q1) a) Give an account on development in sponges.

OR

b) Write short notes on :

- i) General characters of protozoa.
- ii) General characters of porifera

Q2) a) Give an account on the general organization of phylum Nematelminthes.

OR

b) Write short notes on :

- i) Polymorphism
- ii) Parasitic adaptations of Trematodes.

Q3) a) Give an account on the evolutionary significance of Trochophore larve.

OR

b) Write short notes on :

- i) Polychaeta.
- ii) General characters of arthropoda.

Q4) a) Give a detailed account on the general organization of mollusca.

OR

b) Write short notes on :

- i) Bipinnaria larva.
- ii) Ophiopluteus larva.

Q5) a) Give a detailed account on the general organization of chaetognatha.

OR

b) Write short notes on :

- i) Ectoprocta.
- ii) Rotifera.



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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2017

First Year

ZOOLOGY

Systematics & Anatomy of Chordates & Gamete Biology

Time : 3 Hours

Maximum Marks : 70

Q1) a) Give an account on the general characters and classification of hemichordata.

OR

- b) Write short notes on
- i) Urochordata
 - ii) General characters of chordates

Q2) a) Describe the general characters and classification of amphibia.

OR

- b) Write short notes on
- i) Parental care in fishes.
 - ii) Non – poisonous snakes

Q3) a) Give a detailed account on the significance of Archaeopteryx.

OR

- b) Write short notes on
- i) Common birds of India.
 - ii) Flightless birds

Q4) a) Give a detailed account on south Indian mammals.

OR

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

Q5) a) Give an account on gametogenesis.

OR

- b) Write short notes on
- i) Telolecithal egg
 - ii) Fertilization



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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2017

First Year

ZOOLOGY

Cell Biology, Genetics and Evolution

Time : 3 Hours

Maximum Marks : 70

Answer all questions

All questions carry equal marks.

Q1) a) Give an account on plasma membrane.

OR

- b) Write short notes on
- i) Cell membrane
 - ii) Golgi complex

Q2) a) Give a detailed account on the DNA structure.

OR

- b) Write short notes on
- i) Protein synthesis
 - ii) Ribosomal RNA

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

OR

- b) Write short notes on
- i) Chromosome structure
 - ii) Mitosis

Q4) a) Write an essay on interaction of genes.

OR

- b) Write short notes on
- i) Sex determination
 - ii) Multiple alleles

Q5) a) Give a detailed account on modern synthetic theory.

OR

- b) Write short notes on
- i) Species concept
 - ii) Hardyweinberg law

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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2017

First Year

ZOOLOGY

Animal Ecology and Wildlife

Time : 3 Hours

Maximum Marks : 70

Q1) a) Give an account on thermal stratification of natural water bodies.

OR

- b) Write short notes on
- i) Feed back loop
 - ii) Properties of water

Q2) a) Give an account on the anthropogenic stress and toxic waste as limiting factors.

OR

- b) Write short notes on
- i) Liebig's law of minimum
 - ii) Ecological pyramids

Q3) a) Give a detailed account on biotic interactions

OR

- b) Write short notes on
- i) Ecological niche
 - ii) Mutualism

Q4) a) What is population? Give an account on population growth form.

OR

- b) Write short notes on
- i) Energy partitioning
 - ii) Basic concepts of rates

Q5) a) Give an account on the characteristics and objectives of biosphere reserves.

OR

- b) Write short notes on
- i) Threatened species
 - ii) Hot spots

