

(DZOO 01 (NR))

ASSIGNMENT - 1, DEC - 2016.

M.Sc. (PREVIOUS) FIRST YEAR DEGREE

ZOOLOGY

PAPER-I : SYSTEMATICS AND ANATOMY OF INVERTEBRATES

Maximum : 30 MARKS

Answer ALL questions.

- 1) Give detailed notes on classification of the Phylum Protozoa up to orders.
  - 2) Write short notes on:
    - i) Development in sponges
    - ii) General organization of Porifera
  - 3) Write an account of classification of phylum Coelenterata up to orders
  - 4) Write short notes on:
    - i) General organization of Nematelminthes
    - ii) Parasitic adaption in Platyhelminthes.
  - 5) Describe advanced blood circulatory system in Annelida.
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ASSIGNMENT - 2, DEC - 2016.

M.Sc. (PREVIOUS) FIRST YEAR DEGREE

ZOOLOGY

PAPER-I : SYSTEMATICS AND ANATOMY OF INVERTEBRATES

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
    - i) General organization of Arthropoda.
    - ii) Evolutionary significance of Trochophore larva.
  
  - 2) Describe classification of Phylum Echinodermata.
  
  - 3) Write short notes on:
    - i) General organization of Mollusca
    - ii) Sea urchin
  
  - 4) Give an account on General organization of Ectoprocta.
  
  - 5) Write short notes on:
    - i) Rotifera
    - ii) Sipuncula
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ZOOLOGY

PAPER- II — SYSTEMATICS AND ANATOMY OF CHORDATES AND GAMETE

BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Give detailed notes on specialized characters of Hemichordate and Cephalochordata.
  
  - 2) Write short notes on:
    - i) General characters of the phylum chordates.
    - ii) Urochordata.
  
  - 3) Give an account of classification of fishes up to class
  
  - 4) Write short notes on:
    - i) General characters of Amphibia.
    - ii) Non-poisonous snakes.
  
  - 5) Describe classification of Birds up to class
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ZOOLOGY

PAPER- II — SYSTEMATICS AND ANATOMY OF CHORDATES AND GAMETE

BIOLOGY

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
    - i) Common birds of India.
    - ii) Flightless birds.
  
  - 2) Give an account of general characters of Mammals.
  
  - 3) Write short notes on:
    - i) Adaptative radiation in mammals.
    - ii) Patterns of Cleavage.
  
  - 4) Give detailed notes on Oogenesis
  
  - 5) Write short notes on:
    - i) South Indian Mammals.
    - ii) Oestrous cycle.
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**ZOOLOGY**

**PAPER- III — CELL BIOLOGY, GENETICS AND EVOLUTION**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1)** Describe the structure of Plasma membrane.
  
  - 2)** Write short notes on:
    - i) Endoplasmic Reticulum.
    - ii) Golgi complex.
  
  - 3)** Discuss the DNA Structure.
  
  - 4)** Write short notes on:
    - i) Ribosomal RNA.
    - ii) Transfer RNA.
  
  - 5)** Write in detail the abnormalities of the Chromosomes.
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ZOOLOGY

PAPER- III — CELL BIOLOGY, GENETICS AND EVOLUTION

Maximum : 30 MARKS

Answer ALL questions.

- 1) Write short notes on:
    - i) Significance of meiosis.
    - ii) Giant chromosomes.
  
  - 2) Write an essay on sex linked inheritance.
  
  - 3) Write short notes on:
    - i) Di hybrid cross.
    - ii) Epistasis.
  
  - 4) Give an account on modern synthetic theory.
  
  - 5) Write short notes on:
    - i) Hardyweinberg law of equilibrium.
    - ii) Isolation.
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**ZOOLOGY**

**PAPER- IV — ANIMAL ECOLOGY AND WILDLIFE**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1)** Explain Thermal stratification of natural water bodies.
  
  - 2)** Write short notes on:
    - i)** Light penetration.
    - ii)** Ecology its relevance to civilization.
  
  - 3)** Describe Biogeochemical cycle of Carbon.
  
  - 4)** Write short notes on:
    - i)** Shelford's law of tolerance.
    - ii)** Food web
  
  - 5)** Give an account on different positive interactions.
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**M.Sc. (PREVIOUS) FIRST YEAR DEGREE**

**ZOOLOGY**

**PAPER- IV — ANIMAL ECOLOGY AND WILDLIFE**

**Maximum : 30 MARKS**

**Answer ALL questions.**

- 1) Write short notes on:
    - i) Parasitism and allelopathy.
    - ii) Biotic interactions
  
  - 2) Describe population growth form with suitable examples.
  
  - 3) Write short notes on:
    - i) Properties of the population group
    - ii) Energy partitioning and optimization
  
  - 4) Explain wild life trade and management strategies.
  
  - 5) Write short notes on:
    - i) Rare and threatened species
    - ii) Positive and negative values of wild life.
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