

(DZOO01)

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M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2016

First Year

ZOOLOGY

Systematics and Anatomy of Invertebrates

Time : 3 Hours

Maximum Marks : 70

Q1) a) Describe various types of reproductive processes in Protozoa.

OR

b) Write short notes on

i) General Organization of porifera

ii) Sponges

Q2) a) Give an account on parasitic adaptations in platy helminthes.

OR

b) Write short notes on

i) Anthozoa

ii) Polymorphism

Q3) a) Describe the evolutionary significance of trochophore larva.

OR

b) Write short notes on

i) Polychaeta

ii) Crustacea

Q4) a) Describe the general organization of mollusca.

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- b) Write short notes on
 - i) Holothuroidea
 - ii) Sea urchin

Q5) a) Describe the general organization of chaetognatha.

OR

- b) Write short notes on
 - i) Sipuncula
 - ii) Rotifera



(DZOO02)

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M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2016

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 an account on Urochordata.

OR

b) Write short notes on

- i) General characters of chordates
- ii) Specierlized characters of Proto chordates

Q2) a) Write an essay on the migration of fishes

OR

b) Write short notes on

- i) Characters of amphibia
- ii) Non – Poisonous snakes

Q3) a) Give an account on the adaptation of birds to flight.

OR

b) Write short notes on

- i) Flight less birds
- ii) Feathers in birds

Q4) a) Give an account on general characters of mammals

OR

b) Write short notes on

- i) Adaptative radiation in Mammals
- ii) Aquatic mammals

Q5) a) Give an account on parental care in fishes

OR

- b) Write short notes on
- i) Patterns of cleavage
 - ii) Marsupials



(DZOO03)

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M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2016

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 the structure of Endoplasmic reticulum

OR

b) Write short notes on

i) Cell membrane

ii) Golgi complex

Q2) a) Write an essay on the protein synthesis

OR

b) Write short notes on

i) m - RNA

ii) DNA

Q3) a) Give a detailed account on abnormalities of the chromosomes.

OR

b) Write short notes on

i) Mitosis

ii) Giant chromosomes

Q4) a) Give an account on Sex linked inheritance

OR

b) Write short notes on

i) Mendelian laws

ii) Interaction of genes

Q5) a) Give an account on species concept.

OR

b) Write short notes on

i) Isolation

ii) Hardyweinberg law



(DZOO04)

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M.Sc. (Previous) DEGREE EXAMINATION, DEC. – 2016

First Year

ZOOLOGY

Animal Ecology and Wildlife

Time : 3 Hours

Maximum Marks : 70

Answer all questions.

All questions carry equal marks.

Q1) a) Describe thermal stratification of natural water bodies.

OR

- b) Write short notes on
- i) Feed back loop
 - ii) Ecosystem

Q2) a) Describe the anthropogenic stress and toxic waste as limiting factor.

OR

- b) Write short notes on
- i) Food chain
 - ii) Shelford's law of tolerance

Q3) a) Give an account on inter specific competition and coexistence.

OR

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

Q4) a) Describe the properties of the population group

OR

- b) Write short notes on
- i) Population control
 - ii) r - selection

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

OR

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

