

(DZOO01)

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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

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 a detailed account on the development of sponges.

OR

b) Write short notes on

- i) Reproduction in protozoa.**
- ii) General characters of Porifera.**

Q2) a) Give an account on general organization of nemathelminths.

OR

b) Write short notes on

- i) Parasitic adaptations of cestodes.**
- ii) Polymorphism in coelenterates.**

Q3) a) Give an account on general organization of annelida.

OR

b) Write short notes on

- i) Significance of trochophore larva.**
- ii) General characters of arthropoda.**

Q4) a) Give an account on larval forms in echinoderms.

OR

- b) Write short notes on
 - i) Classification of mollusca.
 - ii) General characters of echinodermata.

Q5) a) Give an account on general organization of Rotifera.

OR

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



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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

First Year

ZOOLOGY

Systematics & Anatomy of Chordates & Gamete Biology

Time : 3 Hours

Maximum Marks : 70

All questions are compulsory.

All questions carry equal marks.

Q1) a) Give an account on specialized characters of Cephalochordata.

OR

b) Write short notes on :

- i) Urochordata.
- ii) General characters of chordates.

Q2) a) Give an account on migration of fishes.

OR

b) Write short notes on :

- i) General characters of Amphibia.
- ii) Non – poisonous snakes.

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

OR

b) Write short notes on :

- i) Classification of birds.
- ii) Archaeopteryx.

Q4) a) Give an account on aquatic adaptations of mammals.

OR

b) Write short notes on :

- i) General characters of mammals.
- ii) South Indian mammals.

Q5) a) Give an account on fertilization.

OR

b) Write short notes on :

- i) Sperm.
- ii) Vitelogenesis.



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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

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 golgi complex.

OR

b) Write notes on

i) Mitochondria

ii) Cell membrane

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

OR

b) Write short notes on

i) Messenger RNA

ii) t - RNA

Q3) a) Give an account on gaint chromosomes.

OR

b) Write short notes on

i) Meiosis

ii) Abnormalities in Chromosomes.

Q4) a) Give an account on sex determination.

OR

- b) Write short notes on
- i) Interaction of genes
 - ii) Multiple alleles

Q5) a) Give a detailed account on various species concepts.

OR

- b) Write short notes on
- i) Modern synthetic theory.
 - ii) Hardyweinberg law.



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M.Sc. (Previous) DEGREE EXAMINATION, MAY – 2018

ZOOLOGY

First Year

Animal Ecology and Wildlife

Time : 3 Hours

Maximum Marks : 70

Answer all questions.

All questions carry equal marks.

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

OR

b) Write short notes on

- i) Life supporting properties of water
- ii) Classification of ecosystems

Q2) a) Give an account on biogeochemical cycle of nitrogen.

OR

b) Write short notes on

- i) Concept of productivity
- ii) Shelford's law of tolerance

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

OR

b) Write short notes on

- i) Commensalism
- ii) Predation

Q4) a) Give an account on properties of population group.

OR

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

Q5) a) Give an account on wild life projects in India.

OR

- b) Write short notes on
- i) Wildlife trade
 - ii) WWF

