

DK-102

December-2022

B.Sc., Sem.-III

CC-202 : Zoology

(New)

Time : 2:30 Hours]

[Max. Marks : 70

- Instructions :** (1) Figures on the right side indicate the marks of that question.
 (2) Illustrate your answers with labelled diagram whenever necessary.

1. (A) Classify Amphioxus giving reasons and write short note on it. (classify upto order) 7
 (B) Classify following animals upto order giving reasons : 7
 (1) Eel
 (2) Sting-ray
- OR**
- (A) Describe the general characters of superclass pisces. 7
 (B) Write short note on : 7
 (1) Salamander
 (2) Ichthyophis
2. (A) Describe the external characters of Calotes with a labelled diagram. 7
 (B) Describe the arterial system of Calotes with a labelled diagram. 7
- OR**
- (A) Write a short note on : Collumela auris (Internal ear) of Calotes. 7
 (B) Write a note on male urinogenital system of Calotes. 7
3. (A) Write the characters of comparison of Chondrichthyes and Osteichthyes. 7
 (B) Write a short note on : "Python" and "Cobra". 7
- OR**
- (A) Compare : Nonchordates and Chordates. 7
 (B) Write a short note on : Identification marks of venomous snakes and "Krait". 7

4. (A) Write a short note on : Pleiotropism. 7
(B) Describe : Vortex mixture as an apparatus used in a tissue culture laboratory. 7

OR

- (A) Write short note on types of Mutagens. 7
(B) Write a short note on : Magnetic Stirrer. 7

5. Write answers in short : (any seven) 14

- (1) Write any two characters and examples of Protochordates.
 - (2) Define Gnathostomata and name any two superclasses of it.
 - (3) Write the phylum and habitat of Exocoetus.
 - (4) What is the function of venous system in Calotes and name the veins which carry oxygenated blood ?
 - (5) Write the location and function of hyoid apparatus in Calotes.
 - (6) Name the parts of dorsal side of the brain of Calotes and write the function of each part.
 - (7) Define 'Portal System'. Name the portal systems found in chordates.
 - (8) Write the name and habitat of Ovoviviparous snake from your syllabus.
 - (9) Write any two factors affecting neoteny.
 - (10) Give the altered Mendelian ratio in duplicate genes and write the example in which it is observed.
 - (11) Explain the term multiple alleles.
 - (12) Write the principle and function of Cryostorage containers.
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1. (A) Describe the general characters of Cephalochordata and write two sentences about its example. 7
(B) Classify following animals upto order giving reasons : 7
(1) Salpa
(2) Lamprey
- OR**
- (A) Describe the general characters of Cyclostomata. 7
(B) Write a short note on : 7
(1) Sucker fish
(2) Hyla
2. (A) Describe the digestive system of shark with a labelled diagram. 7
(B) Write a short note on : "Naja naja" and "Eryx johni". 7
- OR**
- (A) Describe the structure of Heart in shark and explain the blood circulation in it. 7
(B) Describe the biting apparatus and biting mechanism of venomous snakes. 7
3. (A) Describe the composition of milk as a body fluid. 7
(B) Describe the histological structure of mammalian liver. 7
- OR**
- (A) Describe the histological structure of mammalian tongue. 7
(B) Describe the histological structure of mammalian stomach. 7

4. (A) Describe the process of digestion of carbohydrates in mammal 7
(B) Write a short note on : Thyroid gland. 7

OR

- (A) Describe the structure and hormones of adrenal gland. 7
(B) Write a note on Testis as an endocrine gland. 7

5. Write answers in short : (any seven) 14

- (1) Write any two examples and habitat of Urochordates.
- (2) Write any one character and the class of Agnatha.
- (3) Name the phylum and superclass of Rohu.
- (4) Write any two differences between dorsal view and ventral view of shark.
- (5) Compare the coelom of non-chordates and chordates giving examples.
- (6) Marine snake is venomous or non-venomous ? Write its identification mark.
- (7) Write any two causes of dehydration.
- (8) Write the expanded form and work of CSF.
- (9) Write any two characters of Hyaline cartilage.
- (10) Name any two proteolytic enzymes and state their active and inactive forms and its origin.
- (11) Write the location of Parathyroid gland and name the hormones secreted by it.
- (12) Explain : Pancreas is endocrine as well as exocrine gland and name its secretion.