

Reg. No.



BSCZOC 251

Credit Based IV Semester B.Sc. Degree Examination, April/May 2017
(Semester Scheme)
(2013-14 and Earlier Batches)
ZOOLOGY – IV

Histology, Animal Behaviour, Applied Zoology and Toxicology

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer **any ten** questions from Part – A and **one full** question from **each** Unit of Part – B.
2) **Draw** diagrams **wherever** necessary.

PART – A

- I. A) Name any two papillae found in mammalian tongue.
- B) Draw a neat labeled diagram of T.S. of thyroid follicle of a mammal.
- C) Write a note on islets of Langerhans.
- D) Name any two types of acquired behaviour.
- E) What are the advantages of bird migration ?
- F) Name the castes of honeybees.
- G) What is Gelatin ? Mention its uses.
- H) Write any two advantages of Giriraja breed.
 - I) Write any two economic importances of Molluscan Shells.
 - J) What are Epigeic species of earthworms ? Give an example.
- K) Name any two fish diseases.
- L) Define polyculture with reference to aquaculture. Mention its advantages. (2×10=20)

PART – B

Unit – 1

- II. A) Explain the histology of testis of a mammal. 4
- B) Draw a neat labeled diagram of T.S. of Mammalian salivary gland. 4
- C) Describe the histology of liver of a mammal with a neat labeled diagram. 7

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- III. A) Write short note on histology of mammalian adrenal medulla. 3
 B) Draw a neat labeled diagram of T.S. of stomach of a mammal. 5
 C) Describe the histology of kidney of a mammal with a neat labeled diagram. 7

Unit – 2

- IV. A) Explain the general principle of courtship behaviour. 4
 B) What are reflexes ? Explain with suitable examples. 4
 C) Give a detailed account on parental care in fishes. 7
- V. A) Write a short note on communication system in honeybees. 3
 B) Enumerate the different types of bird nests with suitable examples. 5
 C) Explain catadromous migration in fish with suitable examples. 7

Unit – 3

- VI. A) Give an account of utility of cattle in biogas and fertilizers. 4
 B) Give an account of semi intensive method of poultry management. 4
 C) Give a detailed account of insect pest and their management. 7
- VII. A) Write a note on edible mollusks. 3
 B) What are indigenous breeds of cattle ? Classify indigenous breeds of cattle with examples for each. 5
 C) Give an account of poultry for egg production and meat production. 7

Unit – 4

- VIII. A) Describe induced breeding and fish seed production. 4
 B) Write a note on inland fisheries. 4
 C) Explain the methods of vermiculture. Add a note on the applications of vermicompost. 7
- IX. A) Write a short note on preparation of vermiwash. 3
 B) Write the economic importance of earthworms. 5
 C) Explain the different types of ponds used in pisciculture. 7