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BSCZOC 252

Credit Based IV Semester B.Sc. Degree Examination, April/May 2017
(Semester Scheme)
(2014-15 Batch Onwards)
ZOOLOGY – IV

Histology, Animal Behaviour and Applied Zoology

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) What are sertoli cells ? Mention their function. (2×10=20)
b) Name the hormone secreted by islets of Langerhans.
c) What is a tissue fixative ? Give an example.
d) What is biological clock ? Give an example.
e) Name any two advantages of bird migration.
f) Mention any two essential features of courtship behaviour.
g) Enumerate the chemical composition of Milk.
h) Write a short note on fowl cholera.
i) What is a cocoon ?
j) Name any two fish diseases and the causative organisms.
k) What is Bee-wax ?
l) What is Biomagnification ?

PART – B

Unit – 1

- II. a) Draw a neat labeled diagram of T.S. of intestine of a mammal. 4
b) Write the procedure for double staining of the paraffin section of a animal tissue. 4
c) With a neat labeled diagram describe the histology of liver of a mammal. 7

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- III. a) What is microtome ? 3
 b) Describe the histology of T.S. of thyroid of a mammal with a neat labeled diagram. 5
 c) With a neat labeled diagram explain the histology of kidney of a mammal. 7

Unit – 2

- IV. a) Explain with example for **each** : 4
 I) Leaf nest II) Pendent nest
 b) Explain parental care in 4
 I) Hyla II) Tilapia
 c) Explain two types of fish migration with examples. 7
- V. a) Write a note on instinct behaviour. 3
 b) Describe the nesting behaviour in Wasp. 5
 c) Explain social organization in termites. 7

Unit – 3

- VI. a) Give an account of dairy breeds of cattle based on utility. 4
 b) Give a detailed account of desi breeds of chicken. 4
 c) Give an account of methods of vermiculture. 7
- VII. a) Name any six species of earth worms. 3
 b) Explain housing management in poultry. 5
 c) Give a detailed account of economic importance of cattle. 7

Unit – 4

- VIII. a) Explain the technique of pearl culture. 4
 b) Give an account of modern method of bee keeping. 4
 c) Explain antidotal therapy and its importance. Add a note on animal toxins. 7
- IX. a) Write a note on predators of honey bee. 3
 b) What are the routes of administering toxicants ? 5
 c) Comment on inland and estuarine fisheries with examples. 7