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BSCZOC 252

**Credit Based Fourth Semester B.Sc. Degree Examination, September 2022
(Semester Scheme) (2019 – 20 and Earlier Batches)
ZOOLOGY (Paper – IV)
Histology, Animal Behavior, 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) What are sertoli cells ? Mention their function. (10×2=20)
b) Name the types of mammalian salivary glands.
c) What is microtome ?
d) What are tonic and phasic reflexes ?
e) What is catadromous migration ? Give an example.
f) Define parental care.
g) What are the uses of milk ?
h) Write a short note on culling.
i) What is gelatin ? Mention its uses.
j) Define capture fisheries.
k) What is induced breeding ?
l) Define LD-50 and LC-50.

PART – B

Unit – 1

- II. a) Write the procedure of Hematoxylin eosin staining technique. 4
b) Draw a neat labeled diagram of V.S. of mammalian thyroid gland. 4
c) Describe the histology of kidney of a mammal with neat labeled diagram. 7

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- III. a) Write a note on tissue fixatives. **3**
b) Explain the histology of T.S. of stomach of a mammal. **5**
c) With a neat labeled diagram explain the histology of testis of a mammal. **7**

Unit – 2

- IV. a) Explain conditioned reflex with an example. **4**
b) Explain parental care in Hyla and Pipa. **4**
c) Explain different types of bird nests with suitable example. **7**
- V. a) How do bird prepare for migration ? **3**
b) Explain social organization in monkeys. **5**
c) Give a detailed account of types of bird migration. **7**

Unit – 3

- VI. a) What are milch breed and drought breed ? Give two examples for each. **4**
b) Distinguish between broilers and layers with one example for each. **4**
c) Describe the uses of vermicomposting and vermiwash. **7**
- VII. a) Give an account of local breeds of buffaloes. **3**
b) Describe the ecological classification of earthworms. **5**
c) Explain housing management in birds. **7**

Unit – 4

- VIII. a) Give an account of transport of seed fish and brooding fish. **4**
b) Explain the chemical composition of honey. **4**
c) Explain the impact of various pesticides pollution on wild animals. **7**
- IX. a) Enumerate the importance of toxicology. **3**
b) Describe biomagnification with suitable example. **5**
c) Write about different species of honey bees and explain their characteristics features. **7**
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