

Roll No. _____

[Total No. of Pages : 2

PG2S-174-B-22
M.Sc. II Semester Degree Examination
ZOOLOGY
Structure and Functions of Vertebrates
Paper : HCT 2.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. *All questions carry equal marks.*
2. *Illustrate your answers wherever necessary.*

Answer the following in brief:

(8×2=16)

1. a) Mesonephric Kidney.
b) Jacobson's organ.
c) Hoofs.
d) Urostyle.
e) Vagus nerve.
f) Mandible.
g) Dermal scales.
h) Notochord.
2. a) Give a details on comparative account of Vertebrate column. **(16)**
(OR)
b) Explain comparative account of girdles and limbs.
3. a) Trace the evolution of arotic arches and portal system. **(16)**
(OR)
b) Compare the urinogenital system of amphibians and birds.

4. Write an explanatory notes on any **Two** of the following: (2×8=16)

- a) Air Sacs in birds.
- b) Organs of olfaction.
- c) Respiratory organs in fishes and Amphibians.

5. Write short notes on any **Four** of the following: (4×4=16)

- i) Feeding Habits of herbivores.
- ii) Lateral line system.
- iii) Autonomous Nervous system.
- iv) Anatomy of gut of herbivores.
- v) Significance of protochordates in evolution
- vi) Placoid scales.