

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
Nov/Dec-2023 (NEW COURSE)
Mammalian Physiology (Core (New))

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

SECTION-1

Que. 1 Answer the Following. (Two short Questions)

- (A) Explain each step for the physiological process of digestion and absorption. (07)
(B) Write in detail about BMR. (07)

OR

Que. 1 Answer the question (One long Question)

- What is physiology? Describe physiology of excretion with diagrams. (14)

Que. 2 Answer the Following. (Two short Questions)

- (A) Describe comparative account of heart. (07)
(B) Explain ECG with suitable diagram. (07)

OR

Que. 2 Answer the question (One long Question)

- Write about: haemopoiesis, blood groups and hemoglobin. (14)

Que. 3 Answer any seven out of eight.

- (07)
(1) Why urine is some time watery and sometime concentrated?
(2) Draw a nephron and label.
(3) Describe regulation of water balance in short.
(4) What is tubular secretion?
(5) Just draw: flow of blood in our body.
(6) How heart can pump constantly?
(7) Explain neural control of urination.
(8) Write about types of dialysis.

SECTION-2

Que. 4 Answer the question (One long Question)

- Describe brain and spinal cord. (14)

OR

Que. 4 Answer the Following. (Two short Questions)

- (A) Write note on endocrine glands and basic mechanism of hormone action. (07)
(B) Make a note on: peripheral nervous system. (07)

Que. 5 Answer the question (One long Question)

- Write about physiology of hearing. (14)

OR

Que. 5 Answer the Following. (Two short Questions)

- (A) Draw and explain structure of eye and its functioning. (07)
(B) Explain about stress and adaptation. (07)

Que. 6 Answer any seven out of eight.

- (07)
(1) Write any two differences in between CNS and PNS.
(2) How animals get adapted towards stress?
(3) Provide examples of computer oriented statistical techniques.
(4) Make a list of a few endocrine glands and its hormone.
(5) Write about any hormonal diseases.
(6) What is tactile response?
(7) Write functions of calyx and urinary bladder.
(8) Which is the smallest bone in Human Body?
