

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2019)
Mammalian Physiology (Core (New))

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

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

SECTION- I

- Que.1 (A) Make a note on digestion and absorption of proteins and fat.
(B) Write short note on pituitary gland mentioning all the major hormones it secretes and their function. (07)
(07)
- OR
- Que.1 Explain in detail: Physiology of digestion in detail. (14)
- Que.2 (A) Write a short note on: innate and acquired immunity.
(B) Write short note on ECG. (07)
(07)
- OR
- Que.2 Give a comparative account of heart with label diagrams. (14)
- Que.3 Answer any seven out of eight. (07)
- (1) What is a Myogenic heart?
 - (2) Name the pacemaker of the heart.
 - (3) Name one substance absorbed in the stomach
 - (4) Write about RBC functions.
 - (5) Describe myogenic heart.
 - (6) Which chemoreceptors detect blood CO₂ levels?
 - (7) Which force drives the diffusion of gases in alveoli?
 - (8) Define tubular reabsorption.

SECTION- II

- Que.1 (A) Make a note on: reproductive processes and neuroendocrine regulation. (07)
(B) Describe neural control of muscle tone and posture. (07)
- OR
- Que.1 Describe endocrine glands, basic mechanism of hormone action, hormones and diseases. (14)
- Que.2 (A) Write about role of haemoglobin in gas transport. (07)
(B) Describe the process of micturition in humans. (07)
- OR
- Que.2 Short note on physiology of respiration and describe the mechanism of gas exchange in brief. (14)
- Que.3 Answer any seven out of eight. (07)
- (1) What is computer-oriented statistical techniques (COST)?
 - (2) Differentiate between eustress and distress.
 - (3) Provide examples of computer oriented statistical techniques.
 - (4) What is PTSD?
 - (5) What is action potential?
 - (6) Name any two-software used for statistical analysis
 - (7) How body temperature is regulated?
 - (8) Which part of the brain is the thermostat of the body?
