

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
Oct/Nov-2021 (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.
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SECTION-1

- Que.1** (A) Describe the process of digestion and absorption. (7)
(B) Write about BMR. (7)
OR
- Que.1** Explain in detail: Comparative physiology of excretion, Kidney and urine formation. (14)
- Que.2** (A) Write a short note on: components of blood. (7)
(B) Explain ECG with suitable diagram. (7)
OR
- Que.2** Give a comparative account of various vertebrate heart with label diagrams. (14)
- Que.3** **Answer any seven out of eight.** (7)
(1) How blood volume is regulated?
(2) Describe micturition.
(3) Draw heart of teleost fish.
(4) Write about erythroblastosis fetalis.
(5) Describe myogenic heart.
(6) Comment about cardiac cycle.
(7) What are the functions of plasma?
(8) Write about hemoglobin.

SECTION-2

- Que.4** (A) Make a note on: reproductive processes and neuroendocrine regulation. (7)
(B) Describe neural control of muscle tone and posture. (7)
OR
- Que.4** Describe endocrine glands, basic mechanism of hormone action, hormones and diseases (14)
- Que.5** (A) Write about thermoregulation. (7)
(B) Explain about tactile response. (7)
OR
- Que.5** Draw and explain structure of ear and mechanism of hearing. (14)
- Que.6** **Answer any seven out of eight.** (7)
(1) Draw iris and pupil and give two differences.
(2) Explain acclimatization.
(3) Provide examples of computer oriented statistical techniques.
(4) Describe stress and adaptation.
(5) What is action potential?
(6) Name some of the hormonal diseases.
(7) How body temperature is regulated?
(8) Explain about neuron functions.
