

M.Sc. (Zoology) Semester - 3 (CBCS) Examination
OCT/NOV-2024 (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.
3. Draw neat and labeled diagram wherever needed.

SECTION-1

Que. 1 Describe energy balance & BMR. (14)

OR

Que. 1 Answer the Following.

(A) Write in detail about physiology of absorption. (07)

(B) Explain electrolyte balance, micturition and acid-base balance. (07)

Que. 2 Answer the Following.

(A) Explain neural and chemical regulation of heart. (07)

(B) Describe Blood corpuscles, haemopoiesis and plasma function. (07)

OR

Que. 2 Describe cardiac & haemostasis. (14)

Que. 3 Answer any seven out of eight. (07)

(1) Write types of salivary glands and its position in human.

(2) Define physiology.

(3) Which are the branches of physiology?

(4) Write in short about types of excretion.

(5) Draw bowmen's capsule.

(6) Draw a basic unit of kidney and label all parts.

(7) What is PCT and DCT?

(8) What is haemostasis?

SECTION-2

Que. 4 Describe Reproductive processes and neuroendocrine regulation. (14)

OR

Que. 4 Answer the Following.

(A) Explain in detail gross neuroanatomy of the brain, spinal cord and neuroendocrine regulation. (07)

(B) Describe neural control of muscle tone and posture. (07)

Que. 5 Answer the Following.

(A) Write about computer oriented statistical techniques. (07)

(B) Describe how stress and adaptation works. (07)

OR

Que. 5 Write about thermoregulation & Vision. (14)

Que. 6 Answer any seven out of eight. (07)

(1) What is action potential?

(2) Draw a neuron and label all parts.

(3) What is acclimatization?

(4) Draw cochlea.

(5) Which gland is endocrine as well as exocrine in function?

(6) Why hemoglobin is important?

(7) How body temperature is regulated?

(8) How Central and peripheral nervous system differs?
