

**BACHELOR OF SCIENCE (CBCS-2018 COURSE)**  
**S. Y. B. Sc. Sem-IV :SUMMER- 2022**  
**SUBJECT : ZOOLOGY : PHYSIOLOGY OF MAMMALS**

Day : Monday

Date : 18-07-2022

**S-18387-2022**

Time : 03:00 PM-06:00 PM

Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** Attempt **ANY TWO** of the following : **(12)**
- a) Define ventilation. Describe mechanism of ventilation.
  - b) Describe balanced diet. Describe role of proteins in it.
  - c) Explain enzymatic reactions on food in stomach.
- Q.2** Attempt **ANY TWO** of the following : **(12)**
- a) Explain the role of hormones in pregnancy.
  - b) Describe various phases of menstrual cycle.
  - c) Describe cardiac cycle.
- Q.3** Attempt **ANY TWO** of the following : **(12)**
- a) Describe the role of hormones involved in parturition.
  - b) Describe the process of urine formation.
  - c) Explain the physiological role of testosterone hormone.
- Q.4** Attempt **ANY THREE** of the following : **(12)**
- a) Explain assimilation of food during digestion.
  - b) Write a note on fat soluble vitamins.
  - c) Describe coagulation of blood.
  - d) Write a note on respiratory quotient (RQ).
- Q.5** Attempt **ANY FOUR** of the following : **(12)**
- a) Explain Oestrogen hormone.
  - b) Explain neurogenic heart.
  - c) Write a note on thyroxine hormone.
  - d) Explain growth hormone (GH).
  - e) Write a note on deglutition process.
  - f) Explain adrenaline hormone.

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