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

Day : Thursday

Time : 02:00 PM-05:00 PM

Date : 22-12-2022

W-18387-2022

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) Describe transport of CO₂ by blood from tissue to lung.
- b) Describe physiology of digestion in intestine.
- c) What is balanced diet? Describe the role of carbohydrates in it.

Q.2 Attempt **ANY TWO** of the following : (12)

- a) Describe different events of cardiac cycle.
- b) Describe the process of urine formation.
- c) Describe various phases of oestrous cycle.

Q.3 Attempt **ANY TWO** of the following : (12)

- a) Explain the role of hormones in pregnancy.
- b) Write an essay on parturition.
- c) Describe the physiological role of adrenal cortex.

Q.4 Attempt **ANY THREE** of the following : (12)

- a) Describe Basal Metabolic Rate (BMR).
- b) Write short note on cardiac output.
- c) Write note on water soluble vitamins.
- d) Write a note on testosterone hormone.

Q.5 Attempt **ANY FOUR** of the following : (12)

- a) Write a note on insulin and glucagon hormone.
- b) Explain FSH.
- c) Explain myogenic heart.
- d) Write short note on ureotelic animals.
- e) Write a note on LH.
- f) Explain thyroxine hormone.
