

S.Y.B.SC. SEM – IV (CBCS - 2016 Course) : WINTER - 2018

SUBJECT: ZOOLOGY: PHYSIOLOGY OF MAMMALS

Day: Monday
Date: 29/10/2018

W-2018-0735

Time: 03.00 P.M. To 06.00 P.M
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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Q.1 Attempt **ANY TWO** of the following: (12)

- a) Explain physiology of digestion in intestine.
- b) What is balanced diet? Describe the role of vitamins in it.
- c) Define ventilation? Describe the mechanism of ventilation.

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

- a) Explain physiology of menstrual cycle.
- b) Describe physiological role of testosterone.
- c) Describe the process of urine formation.

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

- a) Describe cardiac cycle.
- b) Describe the role of hormones involved in pregnancy.
- c) Describe physiological role of endocrine secretion of pancreas.

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

- a) Write short notes on cardiac output.
- b) Write note on respiratory quotient.
- c) Write note on proteins as a constituent of balanced diet.
- d) Describe physiological role of adrenal medulla

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

- a) Explain ammonotelic animals.
- b) Explain myogenic heart.
- c) Explain F.S.H.
- d) Explain ADH.
- e) Explain thyroxin.
- f) Explain basal metabolic rate (BMR).

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