

S.Y.B.SC. SEM – IV (CBCS - 2016 COURSE) : SUMMER - 2018

SUBJECT: ZOOLOGY: PHYSIOLOGY OF MAMMALS

Day: **Thursday**
Date: **03/05/2018**

Time: **11.00 A.M. TO 02.00 PM**
Max. Marks: 60

S-2018-0674

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

Q.1 Attempt **ANY TWO** of the following: **(12)**

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

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

- a) Describe different events in cardiac cycle.
- b) Describe various phases of oestrous cycle.
- c) Write essay on parturition.

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

- a) Describe process of urine formation.
- b) Explain the role of hormones in pregnancy.
- c) Describe the physiological role of adrenal cortex.

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

- a) Write short notes on basal metabolic rate (BMR).
- b) Write note on water soluble vitamins.
- c) Describe estrogen and progesterone hormones.
- d) Write note on testosterone hormone.

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

- a) Explain neurogenic heart.
- b) Describe absorption process of food.
- c) Write note on insulin hormone.
- d) Explain thyroxin hormone.
- e) Explain F. S. H.
- f) Describe uricotelic animals.

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