

S.Y.B.SC. SEM – IV (2014 COURSE) : WINTER - 2017
SUBJECT : ZOOLOGY : PHYSIOLOGY OF MAMMALS (Z-42)

Day : Monday
Date : 13/11/2017

Time 03.00 PM TO 05.00 PM
Max. Marks : 40

W-2017-0639

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: **(10)**
- a) Describe physiology of digestion in intestine.
 - b) Describe the transport of CO₂ by blood from tissue to lung.
 - c) Define balanced diet. Describe the role of Vitamins in it.
- Q.2** Attempt any **TWO** of the following: **(10)**
- a) Describe different events of cardiac cycle.
 - b) Explain physiology of menstrual cycle.
 - c) Describe simple muscle twitch.
- Q.3** Attempt any **TWO** of the following: **(10)**
- a) Describe shivering and nonshivering thermogenesis.
 - b) Explain the role of hormones of adrenal cortex.
 - c) Describe the process of urine formation in brief.
- Q.4** Attempt any **FIVE** of the following: **(10)**
- a) Explain exophthalmic goiter.
 - b) Explain in brief the role of insulin.
 - c) Describe neurogenic heart.
 - d) Explain respiratory quotient (R.Q.)
 - e) Explain growth hormone(G.H).
 - f) Explain rigor mortis.
 - g) Explain basal metabolic rate (BMR).

* * *