

S.Y.B.SC. SEM – IV (2014 COURSE) : SUMMER - 2018
SUBJECT : ZOOLOGY : PHYSIOLOGY OF MAMMALS (Z-42)

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

Time **03.00 PM TO 05.00 PM**
Max. Marks : 40

S-2018-0731

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 stomach.
- b) Describe transport of O₂ by blood from lung to tissue.
- c) What is balanced diet? Describe the role of proteins in it.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Describe the physical and chemical changes occurring during muscle contraction.
- b) Describe the different events in cardia cycle.
- c) Describe the role of hormones involved in parturition.

Q.3 Attempt any **TWO** of the following: **(10)**

- a) Describe sweating and panting thermoregulatory mechanisms.
- b) Describe the role of hormones of adrenal medulla.
- c) Describe the process of glomerular filtration.

Q.4 Attempt any **FIVE** of the following: **(10)**

- a) Explain cardiac output.
- b) Explain rigor mortis.
- c) Explain respiratory quotient (RQ).
- d) Explain growth hormone (G.H.).
- e) Explain neurogenic heart.
- f) Define deglutition.
- g) Enlist the hormones of pars distalis .

* * *