Total number of printed pages-3 amount

3 (Sem-4/CBCS) ZOO HC 2

Answer the following questions very briefly:

ZOOLOGY

(Honours Core)

Paper: ZOO-HC-4026

(Animal Physiology: Life Sustaining Systems)

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

- 1. Answer the following questions: 1×7=7
 - (a) What is micelle?
 - (b) Write the dental formula of human.
 - (c) Trachea is formed of which cartilage?
 - (d) Give one example of uricotelic animal.
 - (e) Name the instrument to measure human blood pressure.

- (f) Define pH.
- (g) Give one example of anti-coagulant.
- 2. Answer the following questions very briefly: $2\times4=8$
 - (a) How can animals be classified on the basis of their excretory products?
 - (b) Write the differences between Myogenic and Neurogenic heart.
 - (c) What is Homeostasis?
 - (d) Write the names of two Bile salts.
- 3. Answer the following: (any three)

 5×3=15
 - (a) Write a short note on respiratory pigment.
 - (b) Discuss the role of liver in the process of digestion.
 - (c) Discuss the process of digestion in mouth cavity.
 - (d) Write briefly about the Renin-Angiotensin system.
 - (e) Discuss the role of platelets in the coagulation of blood.

4. Define digestion. Discuss the role of saliva in the process of digestion. Discuss how saliva secretion is regulated. 1+4+5=10

Or

Discuss the process of digestion of proteins in GI tract. State the role of HCI in the process of digestion. 7+3=10

5. Define Tidal volume of Lungs. Describe the mechanism of transport of gases in blood.

2+8=10

Or

Who discovered blood group? Discuss about the ABO blood grouping system. State the role of Rh factor. 1+7+2=10

6. Define cardiac cycle. Describe the events of cardiac cycle. 1+9=10

Or

Describe the structure of a Nephron. Discuss the role of hormones in urine formation. 5+5=10