

Seat No. : _____

AP-112

April-2022

B.Sc., Sem.-IV

CC-205 : Biochemistry (Physiology of Various System)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions in Section-I carry equal marks.
 - (2) Attempt any **THREE** questions in Section-I.
 - (3) Question **9** in section - **II** is **Compulsory**.

SECTION – I

1. (A) Explain Chloride bicarbonate shift. **5**
(B) Write a note on Diffusion of gases and factor affecting it. **9**
2. (A) Explain the transport of carbon dioxide in tissues and lungs. **7**
(B) Describe saturation curve of haemoglobin in brief. **7**
3. (A) Discuss the digestion and absorption of protein. **9**
(B) State various functions of Bile. **5**
4. (A) Discuss composition of gastric juice. **4**
(B) Write a note on intestinal Putrefaction and fermentation. **10**
5. (A) Write a note on structure of nephron. **8**
(B) List any five abnormal constituents of urine. Explain any two of them. **6**
6. (A) Explain Tubular load, T_{max} and plasma clearance. **8**
(B) Describe the role of Aldosterone and ADH. **6**
7. (A) Discuss Blood grouping system and Clinical importance of Blood group. **9**
(B) Write any one properties of haemoglobin and four important functions of haemoglobin. **5**

8. (A) Explain Extrinsic pathway of blood clotting. **6**
(B) Discuss composition and write any four functions of platelets. **8**

SECTION – II

9. Answer the following. (any **Eight**) **8**
- (1) Define Tidal volume.
 - (2) Define internal respiration.
 - (3) What is Bohr's effect ?
 - (4) Define and give normal value of RV.
 - (5) Give composition of saliva.
 - (6) Define the term Digestion.
 - (7) Name any two enzymes for digestion of protein.
 - (8) Write any one role bile salts helps in digestion and absorption.
 - (9) Draw neat and labelled excretory system.
 - (10) List normal constituents of urine.
 - (11) What are different types of nephron ?
 - (12) Give full form ADH.
 - (13) What are stem cells ?
 - (14) Give two hazards of incompatible blood transfusion.
 - (15) What is normal count of Platelets ?
 - (16) Define ESR.
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