

Seat No. : \_\_\_\_\_

# ME-111

May-2018

B.Sc., Sem.-IV

CC-205 : Biochemistry

Time : 3 Hours]

[Max. Marks : 70

- Instructions :**
- (1) All questions carry equal marks.
  - (2) Write clearly the option you attempt.
  - (3) Draw neat figures wherever necessary.

1. (a) Explain Haemoglobin saturation curve and the factors affecting it. 10  
(b) Define and give normal values of : 4  
(i) TV (ii) RV  
**OR**  
(a) Discuss the transport of Carbon dioxide in tissues & lungs. 8  
(b) Write a note on Respiratory acidosis and Alkalosis. 6
2. (a) Discuss in detail the digestion and absorption of Lipids in the GI tract. 9  
(b) Discuss the composition and functions of Saliva. 5  
**OR**  
(a) Discuss the absorption of Proteins and Carbohydrates in the GI tract. 8  
(b) State the functions of Bile. 6
3. (a) Discuss the functions of Kidneys. 7  
(b) Discuss Glomerular filtration in Nephrons during urine formation. 7  
**OR**  
(a) Discuss the role of Kidneys in maintaining acid base balance. 10  
(b) List the normal constituents of urine. Discuss any two. 4
4. (a) Write a note on ESR. 8  
(b) Discuss the hazards of incompatible Blood transfusion. 6  
**OR**  
(a) Explain the structure and functions of Platelets. 7  
(b) Discuss the intrinsic and extrinsic mechanism of Blood Coagulation. 7

5. Answer in brief : 14
- (1) What is RQ ? (1)
  - (2) What is Bohr's effect ? (2)
  - (3) What is intrinsic factor ? State its functions. (2)
  - (4) Define Putrefaction and Fermentation. (2)
  - (5) Define GFR. (1)
  - (6) List two factors that affect Tubular load. (2)
  - (7) Draw and write the normal value of Neutrophils and Monocytes. (2)
  - (8) State any two functions of Blood. (2)
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