

Total Number of Pages—3

II-MBBS—Biochem-I  
(Set-1)

2019

BIOCHEMISTRY

Paper — I

Full Marks : 50

Time : 3 hours

Answer all questions

*The figures in the right-hand margin indicate marks*

Draw diagrams wherever necessary

1. Describe Hemoglobinopathies. 10
2. Define glycolysis. Enumerate the steps of glycolysis. What is the significance of glycolysis? What are the factors regulating glycolysis? 1 + 4 + 2 + 3

( Turn Over )



( 2 )

3. Write short notes on the following :  $5 \times 5$

(i) Components and Sequence of reactions of Electron transport chain.

(ii) Deficiency manifestations of Vitamin A and dietary sources

(iii) Precipitation reaction of proteins

(iv) Competitive inhibition with clinically significant examples

(v) HMP shunt pathway.

4. Fill in the blanks :  $1 \times 5$

(a) Absorbed triglycerides are transported in blood as \_\_\_\_\_.

(b) The key enzyme of heme synthesis is \_\_\_\_\_.

(c) The amino acid involved in melanin synthesis is \_\_\_\_\_.

( 3 )

(d) Bile salts in urine are detected by which test :

(e) Von Gierke's disease occurs due to deficiency of \_\_\_\_\_

(ii) Deficiency manifestations of Vitamin A and dietary sources

(iii) Precipitation reaction of proteins

(iv) Competitive inhibition with clinically significant examples

(v) HMP shunt pathway.

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(a) Absorbed triglycerides are transported in blood as \_\_\_\_\_.

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