

Q.P.Code 106001

Reg. No.:.....

**First Professional MBBS Degree Supplementary Examinations
January 2020****Biochemistry - Paper II**

Time: 3 hrs

Max marks: 50

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essay (10)

1. Describe the chemistry, biochemical functions, requirements and deficiency symptoms of vitamin C (2+4+1+3)

Short essays (2x5=10)

2. Serum calcium homeostasis
3. Applications of recombinant DNA technology

Short notes (5x3=15)

4. Functions of albumin
5. Lesch-Nyhan syndrome
6. Oncogenes
7. Differential diagnosis of Jaundice by Laboratory tests.
8. Acute intermittent porphyria

Answer briefly (5x2=10)

9. Uses of restriction fragment length polymorphism (RFLP)
10. Biochemical basis of thalassemia
11. Role of zinc
12. Gout - Clinical features and Lab Diagnosis
13. Name any two tumor markers and conditions in which they are elevated

Give precise answers (5x1=5)

14. Base-pairing rule
15. Significance of hippuric acid excretion test
16. Why vitamin B₁ deficiency leads to brain dysfunction.
17. Biochemical role of vitamin K in coagulation
18. Normal value of serum total protein
