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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)

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
