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First Professional MBBS Degree Supplementary Examinations March 2021

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 formation and excretion of bilirubin. Explain the significance of serum bilirubin and urobilinogen in the diagnosis of various types of jaundice (5+5)

Short essays (2x5=10)

- 2. Enumerate two hormones which affect calcium and phosphorus metabolism. Mention how these hormones regulate them in the body.
- 3. Absorption, transport and storage of iron in the body.

Short notes (5x3=15)

- 4. Name three B complex vitamins and its co-enzymes forms
- 5. Rickets
- 6. Folate trap
- 7. Metabolic acidosis
- 8. Name various blotting techniques and their significance

Answer briefly (5x2=10)

- 9. Biochemical basis of allopurinol in the treatment of gout
- 10. Define anion gap and mention its normal range.
- 11. List two clinical conditions of abnormal haemoglobulin
- 12. One mechanism of activation of proto-oncogenes to oncogenes
- 13. Mention one function and one deficiency manifestation of vitamin B₁₂

Give precise answers (5x1=5)

- 14. One element involved in wound healing
- 15. Enzyme defect in acute intermittent porphyria
- 16. Vitamin deficiency in pellagra
- 17. Folic acid antagonist used in the treatment of cancer
- 18. Immunoglobulin which serves as first line of defense
