

2010 Scheme

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Reg. No.:....

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)

 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)

- 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
- Rickets
- 6. Folate trap
- 7. Metabolic acidosis
- 8. Name various blotting techniques and their significance

Answer briefly (5x2=10)

- 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
- 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

