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2019 Scheme

Q.P. Code: 116001 Reg. no.:

First Professional MBBS Degree Regular/Supplementary Examinations
February 2023
Biochemistry - Paper II

Time: 3 Hours Total Marks: 100

- 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

Long Essays

(2x15=30)

- 35-year-old female, housewife, presented to the medicine department with excessive weakness, breathlessness and palpitations since 3 months. History revealed that she had complaints of excessive menstrual bleeding. She had followed strict vegetarian diet. Investigations revealed her hemoglobin was 7 Gms/dL
 - a) What is the probable diagnosis (1)
 - b) Describe the sources, RDA, functions, absorption, transport and deficiency of the mineral involved (1+1+3+3+2)
- c) Describe the biochemical investigations and blood picture relevant to this case (4)
- Definition, steps and inhibitors of translation
 Short essays
 (1+11+3)
 (5x8=40)

Short essays (5x6–4t

- Diagrammatically represent the structure of trna. Describe the functions of trna (4+4)
- 4. Principle and applications of Beer-Lamberts law. Add a note on colorimetry (3+5)
- Classify renal function tests. Describe clearance tests in detail
 Describe PCR and its applications. Add a note on its significance in diagnosis
- of covid-19 (4+2+2)

 7. Discuss the structure and functions of immunoglobulin. Add a note on monoclonal antibodies (4+2+2)

Short answers (5x4=20)

- 8. Contractile proteins
- 9. Mucosal block theory
- 10. Salvage pathway
- 11. Effects of free radicals
- 12. Detoxification by conjugation

Give Precise Answers

(10x1=10)

- 13. Biochemical defect in orotic aciduria
- 14. Disease associated with DNA repair
- 15. What is a telomere
- Function of calcium responsible for prevention of tetany
- 17. Western blot
- 18. Reverse transcriptase
- 19. Benzoic acid, a food preservative, is detoxified by-----
- 20. Two causes for respiratory acidosis
- 21. Microalbuminuria
- 22. Two functions of magnesium
