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(10x1=10)

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)

 (2)

 (3)

 (4)

 (5)

 (5)

 (6)
 - 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)
 2. Definition, steps and inhibitors of translation (1+11+3)
- Short essays (5x8=40)
- 3. 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)
- 5. Classify renal function tests. Describe clearance tests in detail (5+3)
- Describe PCR and its applications. Add a note on its significance in diagnosis
 of covid-19

 Discuss the structure and functions of immunoclobulin. Add a note on manufaction.

 The structure and functions of immunoclobulin.
- Discuss the structure and functions of immunoglobulin. Add a note on monoclonal antibodies
 (4+2+2)
 (5x4=20)
- 8. Contractile proteins
- 9. Mucosal block theory
- 10. Salvage pathway
- 11. Effects of free radicals
- 12. Detoxification by conjugation

Give Precise Answers

- 13. Biochemical defect in orotic aciduria
- 14. Disease associated with DNA repair
- 15. What is a telomere
- 16. 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
