

**PAPER CODE: MB2019102****KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES****WARANGAL, TELANGANA STATE - 506002****FIRST MBBS DEGREE EXAMINATIONS: MARCH, 2022****BIOCHEMISTRY (NEW REGULATION) PAPER-II****Time: 3 Hours****Max Marks: 100****Note: Answer all questions.****Give Diagrammatic representation wherever necessary.**

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**Write Long Answer on the following Questions:****2 X15 = 30**

1. Explain the process of Translation in Eucaryotes under following.
  - a) Activation of amino acid,
  - b) Initiation
  - c) Elongation.
  - d) Termination
  - e) Post translational Modifications, (3+3+3+3+3)
2. Discuss the IRON metabolism under the following. (3+3+3+3+3)
  - a) Food sources.
  - b) Daily requirement.
  - c) Functions
  - d) Absorption and transport.
  - e) Clinical abnormalities.

**Write Short Answer on the following Questions:****8X5=40**

3. Heme synthesis.
4. Purine salvage pathway.
5. Polymerase chain reaction





6. Transamination and its significance.

7. Polyamines.

8. Jaundice.

9. Urea cycle.

10. Tumour markers.

**Write Very Short Answer on the following Questions:**

**10X3=30**

11. Apoptosis.

12. Deficiency manifestations of Vitamin "D".

13. Clearance tests.

14. Write any three inhibitors of De Novo purine synthesis.

15. S-Adenosyl methionine.

16. Lesch-Nyhan syndrome and Orotic aciduria.

17. Write any three functions of ZINC.

18. Functions of Albumin.

19. Mention the biochemical defect in

a) Homocystinuria.

b) Phenylketonuria.

c) Maple syrup urine disease.

20. Functions of Vitamin 'C'.

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