

MGR 5506

First Year MBBS Examination I MBBS Biochemistry Paper 2

Time: 3 hours Max Marks: 50

Date: 12-12-2018

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

- 1.Write short notes on: (any two) (10)
- a. Recombinant DNA Technology and its applications (A. 600) (C. 579)
- b. DNA repair mechanism (A. 562) (C. 537)
- c. Gout (A. 548) (C. 394)
 - 2. Write Short notes on (any three) (9)
- a. Post Transcriptional Modification (A. 572)(C. 547)
- b. Lac operon (A. 595) (C.567)
- c. Gene Therapy (A. 604) (C.625)
- d. Mutation (A. 591) (C.535)

- 3. Write Short notes on (any two) (6)
- a. Importance of dietary fibers (A. 515) (C. 510)
- b. Metabolic adaptation in Starvation (A. 122) (C. 383)
- c. Fate of Acetyl Co A

Section 2

- 4. Give an account on (any two) (10)
- a. Classification of amino acids (A. 24) (C. 44)
- Sources and functions of copper. Add a note on Wilson's disease
- c. Specialized products synthesized from Tyrosine
- 5. Write Short notes on (any three) (9)
- a. Wald's visual cycle (A. 454) (C. 121)
- b. Salvage pathway of purine nucleotides (A. 546) (C. 391)
- c. Functions of Vitamin B1
- d. Causes and deficiency manifestations of folic acid (A. 475) (C. 151)
- e. Degradation of pyrimidine nucleotides (A. 551) (C.400)

- a. Electrophoresis of serum proteins is useful in diagnosis of clinical diseases (A. 384)
 (C.724)
- b. Selenium and vitamin E acts synergistically
- c. HMP shunt is necessary for de novo synthesis of purine nucleotide
- d. Vitamin B12 is protective against ischemic heart disease
- e. Hemolysed sample should not be used for potassium estimation in laboratory.
- f. c-AMP plays a vital role in action of certain hormones
- g. Chronic liver disease causes edema
- h. Some type of mushrooms are poisonous.

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