

**PBI 3006****First Year MBBS Examination****I MBBS Biochemistry Paper 2**

Time: 3 hours Date: 06-12-2016 Max Marks: 50

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. Give an account of: (any two) (10)
    - a. Gout and its treatment policies (A. 548) (C. 394)
    - b. Detoxification of ammonia and disorders of urea cycle (A. 258) (C. 335)
    - c. DNA repair mechanisms (A. 562) (C. 537)
  2. Write Short notes on (any three) (9)
    - a. Structure and types of DNA
    - b. Post transnational modification (A. 572) (C. 547)
    - c. Polymerase chain reactions and its application
    - d. Gene therapy (A. 604) (C.625)
    - e. Conjugation reactions of detoxification (A. 525) (C. 640)
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3. Write Short notes on (any two) (6)
- Role of fibers in the diet (A. 514) (C. 508)
  - Fate of acetyl CoA
  - Protein energy malnutrition

## Section 2

4. Give an account on (any two) (10)
- Discuss Ascorbic acid with Dietary sources, biochemical functions and deficiency symptoms (A. 481) (C. 132)
  - Inborn errors of Phenylalanine and tyrosine amino acid. (A. 292) (C. 351)
  - Describe copper metabolism in body-sources, biochemical functions and abnormalities
5. Write Short notes on (any three) (9)
- Pernicious Anemia in Vit B12 deficiency
  - Glycemic index
  - Biochemical role of Selenium
  - Formation of Uric acid (A. 547) (C.392)
  - Disorders of Pyrimidine metabolism
6. Answer in few lines: Any six (6)
- Denatured proteins are biologically inactive.
  - Nitric acid is called as a double edged sword.
  - Acetyl coenzymes A considered the molecule of metabolic integration
  - Incidence of pellagra is more common in women
  - ~~The requirement of iron in the diet is ten times~~

the body's requirement.

- f. Vitamin K can be used as antidote to warfarin poisoning
- g. The action of enzyme telomerase is linked with aging
- h. RNA synthesis is not as meticulously monitored as DNA synthesis

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