

M.B.B.S. [1st Prof.]

BF/2006/06

Biochemistry - B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

1. a. Explain the biochemical role of Zinc. What are the deficiency manifestations of Zinc? [3]
 - b. State how TMP is synthesized. Name the therapeutic drug which inhibits it. [3]
 - c. Enumerate the causes and biochemical features of metabolic acidosis. [4]

 2. **Write short notes on:**
 - a. DNA finger printing. [3]
 - b. Gene cloning. [3]
 - c. Biochemical mechanisms of detoxication in the body. [4]

 3. a. Describe the biochemical tests for assessing renal glomerular function. [5]
 - b. *Define the following:* [5]
 - i) Exons. ii) Splicing.
 - iii) Introns. iv) Southern Blot.
 - v) Handerson-Hassel balch equation.

 4. a. Discuss the metabolism of Iron and its deficiency. [6]
 - b. Explain the principle of various Chromatographic techniques and their application in medicine. [4]

 5. a. Human genome project. [3]
 - b. Salvage pathway of purines and its clinical importance. [3]
 - c. Eukaryotic DNA replication. [4]
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