

# HDO 2511

## First Year MBBS Examination

### I MBBS Biochemistry Paper 1

Time: 3 hours Date: 06-02-2015 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 2

5. Write Short notes on (any three) (9)

- a. Biochemical functions of Pyridoxal phosphate
- b. mUCOPOLysaccharides and related disorders
- c. Biological role of proteins
- d. Vitamin D<sub>3</sub>
- e. Acid base balance

6. Write Short notes of (any six): A 60 year old was admitted in hospital with complaints of bleeding per rectum, abdominal pain, weakness alteration in bowel habit. On (6) examination palpable lump on left lumbar region felt, blood reports as follow Blood Hemoglobin 7.0. gm/dl

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(14-16 gm/dl) Serum carcinoembryogenic antigen level - 10 ug/l (Normal: 3-5 ug/l) By other investigation patient was diagnosed for colon carcinoma.

- a. What is the importance of estimation of Carcinoembryogenic antigen?
- b. What are tumor markers? Give other two examples (A. 666) (C.691)
- c. Define proto-oncogens and tumor suppressor genes.
- d. What is difference between oncogens and oncogenes?
- e. What is chemotherapy? Give any one example.
- f. Which are causative agents of cancer?

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