

Date: 12-12-2015

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First Year MBBS Examination

I MBBS Biochemistry Paper 2

Time: 3 hours

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. Role of vitamin D in regulation blood calcium levels and deficiency manifestations of vitamin D
 - b. Inborn errors of Phenylalanine metabolism (A. 292) (C. 351)
 - c. Detoxification of ammonia and disorders of urea cycle (A. 258) (C. 335)

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

- a. Structure of t-RNA and its role in protein biosynthesis (A. 578) (C. 81)
 - b. Genetic code (A. 580) (C.551)
 - c. Southern blot technique and its applications (A. 609) (C. 382)
 - d. Mutations (A. 591) (C.535)
 - e. Conjugation reactions of detoxification (A. 525) (C. 640)
3. Write Short notes on (any two) (6)
- a. Glycemic index
 - b. Metabolism in starvation (A. 122) (C. 383)
 - c. Protein energy malnutrition

Section 2

1. Give an account on (any two) (10)
- a. Formation of tetrahydrofolate and its role in DNA synthesis
 - b. The fate and functions of Methionine and Cysteine amino acids
