

Date: 12-12-2016

GV 3006

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. Causes and deficiency manifestations of folic acid (A. 475) (C. 151)
 - b. Phenylketonuria (A. 292) (C. 351)
 - c. Gene Therapy (A. 604) (C. 625)
 2. Write Short notes on (any three) (9)
 - a. Telomere and functions of telomerase
 - b. Post-translational modifications and inhibitors of translation (A. 572) (C. 547)
 - c. Southern blot technique and its application (A. 609) (C. 382)
 - d. Vectors used in Re-combinant DNA technology (A. 600) (C. 579)
 - e. Phase I reactions of Detoxication mechanism
 3. Write Short notes on (any two) (6)
 - a. Balanced diet (B. 761) (C. 514)
 - b. Metabolism in starvation (A. 122) (C. 383)
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c. Protein energy malnutrition

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Section 2

1. Give an account on (any two) (10)
 - a. Ammonia formation transportation excretion disorders and toxicity
 - b. Sources absorption function and disorders of Iron in body
 - c. Functions of amino acid glycine and sulphur containing amino acids (A. 275) (C.361)
 2. Write Short notes on (any three) (9)
 - a. Folate trap (A. 478) (C.156)
 - b. High energy compounds
 - c. Vitamin K (A. 461) (C.130)
 - d. Salvage pathway (A. 546) (C. 391)
 - e. Acute phase proteins
 3. Write Short notes of (any six): A 45 year old businessman after attending New Year party with food and alcohol returned late in the night. Next day morning he was (6) awoken from sleep with severe pain in his Big toe. He attended OPD and examination the 1st metatarsal joint was tender and inflamed. In investigation the findings were as follows. Serum Uric acid 9 mg% (normal 4-7 mg%) Serum Cholesterol 200 mg% (Normal 150-220 mg%) Fasting Blood Glucose 110 mg% (Normal 90-110 mg%) On clinical examination the 1st metatarsal joint was tender and inflamed.
 - a. The case was diagnosed as GOUT
 - b. What is Gout? (A. 548) (C. 394)
 - c. What are the causes of primary Gout?
 - d. What is relation between consumption of meaty food and Gout?
 - e. What is relation between alcohol consumption and precipitation of Gouty arthritis?
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- f. Why are the causes of secondary Gout?
- g. How the drug Allopurinol works in treatment of Gout?
- h. Why gouty arthritis is seen in peripheral joints?

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