

MBBS I (First) Professional Examination 2014-15

Course Code: MBS103 Paper ID: 0322208

Biochemistry -I

Time: 2 Hours 40 Minutes Max Marks: 40

Note: Attempt all questions. Draw proper diagrams to support

your answer.

Part 'B'

- Discuss the regulatory mechanism for maintenance of normal blood glucose levels in humans. How are these disturbed in diabetes mellitus? (10)
- 2. a) Describe the regulation of cholesterol biosynthesis in the cell and its association with heart diseases.
- b) Define uremia. Explain the steps of urea cycle.
- Differentiate between:
 - Competitive and non competitive inhibition of enzymes. (6)
- Active and passive transport. b) (2) Carbamoyl phosphate synthetase I and II (2) c)
- Define oxidative phosphorylation. Describe the various components of ETC (Election Transport Chain) along with 4. its inhibitors.

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Roll No.	c. O-	Student's Name
Student's Signature	65	Invigilator's Signature
	6/1/2	
Course Code:MBS103	Biochemistry - I	Paper ID: 0322208

Time: 20 Minutes Max Marks: 10

- Note: 1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes. 2. Please tick $(\sqrt{})$ correct one only. Cutting, overwriting or any other marking are not allowed. 3. For answering please use Ball- pen only.

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- The number of Fe⁺⁺ atoms present in a molecule of hemoglobin is:
- The excretory and product of protein (amino acid) metabolism in humans is:
 - Ammonia
 - b) Urea
 - Uric acid c)
 - Allantoui d)
- 585 amino acid long polypeptide will contain:
 - 585 peptide bonds a)
 - b)
 - 586 peptide bonds 584 peptide bonds c)
 - d) 1170 peptide bonds
- The urea cycle is linked to TCA cycle via: 0.5
 - a) Succinate
 - b)
 - c) Ornithine
 - d) Argininosuccinate
- 0.6 In biochemical reactions S-adenosyl methionine (SAM) is an active donor of the following group:
 - Adenosine a)
 - c) Sulphur
- Methyl d)
- Albumin is synthesized in: 0.7
 - Kidney
 - b) Liver
 - c) Skeletal muscles
 - d) Bone marrow
- 0.8 A nucleoside is composed of:
 - Nitrogenous base + Sugar
 - b) Nitrogenous base + Phosphate
 - c) Nitrogenous base + Sugar + Phosphate
 - d) Sugar + Phosphate
 - c) Serine
 - d) Glycine
- Q.17 The end product of purine catabolism in humans is:
 - a) Urea
 - b) Uric acid
 - c) Ammonia
 - Xanthine d)
- O.18 The action of glucagon is mediated by:
 - a) cAMP
 - cGMP b)
 - IP_3 c) d) DAG
- Q.19 Which one of the following is not an amino
 - acid derivative hormone:
 - Thyroxine a)
 - b) Epinephrine
 - Norepinephrine c)
 - d) Estrogen
- www.FirstRanker.com Q.20 Which one of the following is heteropolysaccharide:
 - a) Starch
 - Glycogen b)
 - Hyaluronic acid c)
 - d) Inulin

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supercoiled DNA:

d)

('=I)NA

Z-DNA

- a) SS-DNA
- b) B-DNA
- A-DNA c)
- Plasmid -DNA d)
- P.T.O.
- Q.11 Which one of the following acts as an auto catalyst in the digestion of protein:
 - Pepsin
 - b) Trypsin
 - Chymotrypsin c) d)
 - Entrokurasi
- Q.12 Transaminases are mostly found in:
 - a) Heart
 - b) Brain
 - c)
 - d) Kidney
- Q.13 Purely ketogenic aminoacid is:
 - a) Tyrosine
 - b) Phenylalanine
 - Arginine c)
 - d) Leucine
- Q.14 Albinism is due to deficiency of: a) Phenylalanine hydroxylase

 - Tryphphan hydroxylase
 - Tyrosinase
 - d) Arginase
- Q.15 In which disease homogentisate accumulates in the blood and excreted in
 - a) Phenylketonuria
 - b) Alkaptonuria
 - Homocystinuria c)
 - Ketonuria
- Q.16 The phospholipid lecithin contains which of the following nitrogenous compound:
 - Choline
 - Ethanolamine