

MBBS I (First) Professional Examination 2018-19

Course Code: MBS103 Paper ID: 03219208

Biochemistry -I

Time: 2 Hours 40 Minutes Max Marks: 40

Note: Attempt all questions. Draw proper diagrams to support

your answer.

Part 'B'

What is the normal blood glucose level? Discuss the factors regulating blood glucose in the fasting and postparandial states. Write the diagnostic criteria for diabetes mellitus.

- Discuss the biochemical alterations seen in blood and urine 2 in different types of Jaundice.
- 3. Describe the importance of serum enzyme estimations in clinical diagnosis.
- Write short notes on the following: Transport mechanisms of glucose
- b) Phenylketonuria
- c) Inhibitors of ETC Second messengers d)
- Ketogenesis

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(2x5=10)

Roll No.		Student's Name
	X_\	
Student's Signature		Invigilator's Signature
	CIT'S	
Course Code:MBS103	1/1.	Paper ID: 03219208
	Biochemistry – I	

Part 'A' 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.





- Endotoxin
- b Cardiolipin
- Proteoglycan
- Lipopolysaccharide
- Q.3 All the following are branched chain amino acids except:
 - Isoleucine
 - Threonine b)
 - Valine c)
 - d) Leucine
- Which of thefollowing contains only alpha 0.4 glycoside linkages:
 - Starch a)
 - b) Cellulose
 - c) Lactose
 - d) Sucrose
- Q.5 Which of the following is not a phospholoipid:
 - Cerebroside
 - b) Sphingomyelin
 - c) Lecithin
- Cephalin d)
- Q.6 N-3 of purine ring is donated by:
 - Aspartate a)
 - b) Ammonia
 - c) Glycine
- Glutamine d)
- In a competitive inhibition:
 - a) Km is decreased Vmax remains same
 - b) Km is increased Vmax remains same
 - Km is decreased Vmax is increased c)
 - Km is increased Vmax is increased
- Q.8 Gluconeogenesis is inhibited by:
- - Insulin a)
 - Glucocorticoids
 - c) Glucagon
 - Growth hormone d)
- 0.9 Deficiency of glucose-6-phosphate dehydrogenase causes:
 - b) It inhibits ATP synthase
 - c)
 - It forms a complex with NADH It makes mitochondria permeable to d) potassium
- Q.18 The most potent thyroid hormone:
 - a) T4
 - b) T3
 - T2 c)
 - d)
- 0.19 Amino acid carrier defect is found in:
 - a) Maple Syrup Urine disease
 - b) Alkaptonuria
 - c) Phenylketonuria
 - d) Cystinuria
- Q.20 Triglycerides in serum are transported by:
 - HDL
 - IDL b)
 - c) LDL
 - www.FirstRanker.com d) Chylomicrons

following, except: www.FirstRanker.com

www.FirstRanker.com

be prevented by

- Lecithin
- d) Methionine

Fatty liver may

- Q.11 The main apoprotein present chylomicron: E2
 - B100 a) D c)
 - B48
- P.T.O.
- Q.12 Ammonia is trapped in brain by:
 - Glutamate dehydrogenase reaction
 - b) Glutamine reaction
 - Glutamine Synthetase reaction c)
 - d) Urea Synthesis cycle
- Acute intermittent porphyria (AIP) is: O.13
 - Characterized by photodermatitis a)
 - b) An autosomal dominant trait Hemolytic anemia is associated
 - d) More common in men than women
- Q.14 Serum acid Phosphatase (ACP) level is increased in:
 - Excess phosphate intake
 - b) Rickets
 - c) Hepatoma
 - d) Prostatic carcinoma
- Q.15 Which of the following is a simple protein:

 - b) Insulin
 - Hemoglobin c)
 - Tyrosinase d)
- Q.16 Name the defective enzyme in methyl malonyl aciduria:
 - Phenylalanine Hydroxylase a)
 - Methyl malonyl CoA mutase b)
 - Propionyl CoA carboxylase c)
 - d) Cystathionine synthase
- Q.17 Valinomycin inhibit oxidative phosphorylation because:
 - It inhibits cytochrome oxidase