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## First Year MBBS Examination I MBBS BIOCHEMISTRY PAPERI

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Max Marks: 100

Date: 25-01-2023

Instructions: INSTRUCTIONS: Attempt all questions in both sections: (Use separate answer book for

each section)

## Section 1

	1. Fill in the blanks: (6)	
a.	Lipoprotein responsible for reverse cholesterol	
	transport is	
b.	Secondary structure present in collagen protein	
C.	Low Km value indicates affir	nity
	between enzyme and substrate.	-
d.	Chemical name of calcitriol is	•
e.	Nitric oxide is synthesized from	
	amino acid.	
f.	Type of bilirubin increased in obstructive jaundie	ce
	is .	
4	2. Choose the correct option in the following	
	multiple choice questions: (4)	
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dependent carboxylase?

- a) Competitive
- b) Non competitive
- c) Allosteric
- d) Suicidal
- b. Polysaccharide does not give colour with iodine test:
  - a) Starch
  - b) Dextrin
  - c) Cellulose
  - d) Glycogen
- c. Von Gierke's disease is characterized by all except:
  - a) Lactic acidosis
  - b) Hyperglycemia
  - c) Hyper uricemia
  - d) Hyperlipidemia
- d. Complex of electron transport chain not functions as proton pump:
  - a) Complex I
  - b) Complex II
  - c) Complex III
  - d) Complex IV
  - 3. A 66 years age obese male had severe chest pain in the morning after doing exercise. He describe pain as retrosternal and radiating to the left arm. On investigation (15) serum troponin I was raised. He had complaint of dyspnoca and intermittent palpitations. Based on this history answer:
- <del>a. What is probable diagnosis?</del>



b. What other investigations are to be performed for diagnosis?

- c. What is the role of isoenzymes in diagnosis of this case?
- d. What is flipped pattern?
- e. What are various risk factors for this disease?
  - 4. Write short notes on (Any five) (10)
- a. Ferritin
- b. Anion gap (A.482)
- c. Atherosclerosis. (A.317)
- d. Uncouplers
- e. Denaturation of proteins
- f. Transaminases.
  - 5. Explain briefly (Any three) (15)
- a. Chemiosmotic theory
- b. Krebs Henseleit cycle.
- c. Fate of Acetyl COA (A.253)
- d. Functions of electrolytes.

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## www.FirstRanker.com Section 2

- 6. Discuss the reactions of cycle with its energetic. Suggest role of vitamins in Krebs cycle. (20)
- 7. Explain Why (Any Five) (10)
- a. Liver cannot utilize ketone bodies.
- b. Insulin is given to diabetics by subcutaneous route
- c. Eating raw eggs causes biotin deficiency.
- d. Vitamin C is not synthesized in starvation.
- e. Ketoacidosis is observed in starvation.
- f. Ammonia is toxic to brain. (A.336)
  - 8. Explain briefly (Any Four ) (20)
- a. Products obtained from Glycine amino acid. (A.344)
- b. Biochemical functions and deficiency manifestations of Vitamin A.
- c. Diagnostic significance of enzyme
- d. Differential diagnosis of jaundice.
- e. Gluconeogenesis.

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