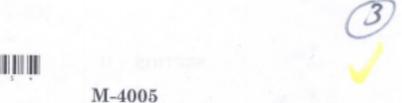


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First Year M. B. B. S. Examination

	Biochemistry : Paper - I	
Tim	e: 1 Hour & 50 Minutes] [Total Marks:	40
Inst (1)	tructions :	
N:	મેં દર્શાવેલ 🕳 વિશાનીવાળી વિગતો ઉત્તરવાદી પર અવશ્ય લખતી. Illup strictly the details of 🕳 signs on your answer book. Imper of the Examination : FIRST YEAR M. B. B. S.	
-	ame of the Subject ;	1
4	BIOCHEMISTRY - 1	
· St	ubject Code No.: 4 0 0 5 Section No. (1, 2,): 1&2 Student's Signature	
(2) (3)	Write each section in separate answer book. Draw figures wherever possible.	
	SECTION - I	
1	Short note: (2 out of 3)	8
	(a) Describe the stage of absorption, transport and storage of iron in the body. Add a note on disorder associated with defective iron metabolism.	
	(b) Degradation and clinical significance of cholesterol.	
	(c) Role of kidney in maintenance of acid-base balance.	
2	Describe in brief: (4 out of 6)	12
	(a) Metabolic acidosis.	
	(b) Mucopolysaccharides and their biomedical importance.	
0	(c) Function of prostaglandin.	
	(d) Chemiosmotic coupling theory for Oxidative phosphorylation.	
	(a) Plasma 1''-161-	
	(e) Plasma lipid profile.	
	 (f) β oxidation of fatty acid and its energetics. 	

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SECTION - II

Case with 5 questions :

A 56 yr old man with known history of diabetes mellitus (DM) is brought to the hospital in a semiconscious state. He has rapid breathing his relative says that due to a family functions, his diet and sleep have been erratic. The physician advises to routine blood test - RBS, Blood Urea, Creatinine, HBA1C and Electrolytes.

- Write the Normal Range of random, fasting and postprandial plasma glucose.
- (2) What is the utility of HBA1C estimation?
- (3) What is the WHO criteria for diagnosis of diabetes mellitus?
- (4) Enumerate the three cardinal symptoms of diabetes mellitus.
- (5) Enumerate any two late complication of diabetes.

Answer in few line: (5 out of 7)

- (1) TCA cycle is Amphibolic in nature.
- (2) Selenium is an Antioxidant Mineral.
- (3) LDL cholesterol is called as bad cholesterol.
- (4) Venom of viper snake bite leads to haemolysis.
- (5) Fatty liver is commonly observed in chronic alcoholics.
- (6) Sucrose is non reducing sugar.
- (7) Ketoacidosis is potentially dangerous to the body.

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