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R-3704 First Year M. B. B. S. Examination	
Biochemistry : Paper - I	
.1	
Nime : 2 Hours]	[Total Marks : 50
nstruction:	
નીવે દશાંવેલ 🗻 નિલાનીવાળી વિગતો ઉત્તરવતી પર અનગ્રવ લખતી.	Seat No.:
Filliup strictly the details of 🖝 signs on your answer book.	
Name of the Examination: FIRST YEAR M. B. B. S.	
Name of the Subject :	
BIOCHEMISTRY : PAPER - 1	
	Student's Signature
- Subject Code No. 3 7 0 4 - Section No. (1, 2,): 1	62 Sometragnam
SECTION- I	
. Short note: (2 out of 3)	2x4=8
a) Describe the mechanism of iron absorption,	transport and storage.
Add a note on disorder associated with defe	ctive iron metabolism.
b) What is gluconeogenesis? Write the pathway	with its significance.
 Describe De Novo synthesis of fatty acid with 	re-ulation
c, Describe De Novo synthesis of facty add with	regulation.
2. Short notes: (4 out of 6)	4x3=12
a) Metabolism of VLDL. b) Liver function test	4x3=12
Short notes: (4 out of 6) Metabolism of VLDL.	4x3=12
a) Metabolism of VLDL. b) Liver function test	4x3=12 on.
a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any four e) Electron transport chain and its inhibitors	4x3=12 on.
t. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any four	4x3=12 on.
a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any fore e) Electron transport chain and its inhibitors f) Protein energy malnutrition	4x3=12 on.
t. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any for e) Electron transport chain and its inhibitors f) Protein energy malnutrition	4x3=12 on. or Mucopolysaccharides
t. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any four e) Electron transport chain and its inhibitors f) Protein energy malnutrition Answer in one or two line: (5 out of 6)	4x3=12 on. or Mucopolysaccharides
b. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any four e) Electron transport chain and its inhibitors f) Protein energy malnutrition Answer in one or two line: (5 out of 6) a) Flurorosis	4x3=12 on. or Mucopolysaccharides
b. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any four e) Electron transport chain and its inhibitors f) Protein energy malnutrition Answer in one or two line: (5 out of 6) a) Flurorosis b) ketoacidosis.	4x3=12 on. or Mucopolysaccharides
b. Short notes: (4 out of 6) a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any found e) Electron transport chain and its inhibitors f) Protein energy malnutrition Answer in one or two line: (5 out of 6) a) Flurorosis b) ketoacidosis. c) Rancidity of fat	4x3=12 on. or Mucopolysaccharides
a) Metabolism of VLDL. b) Liver function test c) Write the role of kidneys in acid-base regulation d) Name the function and composition of any foundation to the function and its inhibitors f) Protein energy malnutrition Answer in one or two line: (5 out of 6) a) Flurorosis b) ketoacidosis. c) Rancidity of fat d) What is P:O ratio & its importance	4x3=12 on. ur Mucopolysaccharides



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SECTION -II

4. Read the following case and answer the questions :

5x2=10

- A young shopkeeper was diagnosed for hypercholesterolemia during routine laboratory investigations. His total cholesterol was 245mg%, TG was 126mg% and HDL cholesterol was 33 mg%.
 - a) In which organ cholesterol is mainly synthesized in our body? Name the regulatory enzyme of cholesterol biosynthesis.
 - b) How cholesterol is transported from peripheral tissue to liver.
 - c) Calculate approximate blood level of LDL cholesterol in this patient.
 - d) How cholesterol is excreted from the body?
 - e) How "Statin" group of drugs reduces blood cholesterol level.

6. Write justification: (5 out of 7)

5x2=10

- a) 2-3 BPG decreases affinity of oxygen with hemoglobin.
- b) Brain cannot utilize free fatty acids for energy purpose.
- c) Fat burn in flame of carbohydrate
- d) Human beings cannot digest cellulose
- e) Lead poisoning causes anemia
- f) Cataract is more common in galactosemia
- g) Iron deficiency anemia is observed in copper deficiency

7. Answer in one or two line : (5 out of 6)

5x1=5

- a) Write significance of HbA1c
- b) Application of isotopes for diagnosis
- c) Glucose tolerance test
- d) Write test name of Lipid profile
- e) Significance of HMP shunt
- f) Liposomes & its use

R-37041