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SARDAR PATEL UNIVERSITY
Bachelor of Science (Semester 5) Examination – 2025
US05CBCH53: Human Metabolism-I



Date: 07/10/2025(Tuesday)
Time: 10:00 AM to 01:00 PM

Total:70 Marks

NOTE:

1. Figure to the right indicate full marks of the questions.
2. Use of scientific calculator is allowed during the examination.
3. Make suitable assumptions and draw neat figures wherever required.

Q-1 Multiple Choice Questions

[10]

- 1 In TCA cycle, The combination of acetyl CoA and oxaloacetate produces _____.
A. Succinate
B. Malate
C. Citrate
D. Glucose
- 2 The breakdown of glucose to produce ethanol by yeast is known as
A. Glycolysis
B. Gluconeogenesis
C. Fermentation
D. TCA cycle
- 3 For glycolysis, the enzyme which is irreversible in nature
A. Aldolase
B. Enolase
C. Phosphoglycerate mutase
D. Pyruvate Kinase
- 4 The process of synthesis of glycogen is
A. Glycogenolysis
B. Glycogenesis
C. HMP pathway
D. TCA cycle
- 5 Which organ is mainly responsible for insulin secretion?
A. Pancreas
B. Liver
C. Brain
D. Adipose Tissue
- 6 Glycogen storage diseases are due to the defects in enzymes of
A Glycolysis
B Gluconeogenesis
C Glycogenesis or glycogenolysis
D TCA cycle
- 7 Beta-oxidation of 16C fatty acid produces _____ number of acetyl CoA.
A. 9
B. 8
C. 7
D. 16
- 8 The type of lipoproteins which is considered as bad cholesterol
A. HDL
B. LDL
C. VLDL
D. Chylomicrons
- 9 The fatty acid synthesis proceeds with _____ in excessive concentration.
A. Acetyl-CoA
B. Acetoacetyl CoA
C. Propionyl CoA
D. Succinyl CoA



[P. T. O.]

