

Gurudas College
Department of Biochemistry
Internal Assessment – 2020
Semester-III Hons.
Paper CC 6 (SET 1)

Total Marks-10

Choose the correct option:

1. Gluconeogenesis responds to which of the following?

- a) Hormonal control
- b) pH control
- c) Temperature control
- d) Blood control

2. Which of the following statements is true about PFK-1?

- a) It is stimulated by AMP and ADP
- b) It is stimulated by citrate and ATP
- c) It is inhibited by AMP and ADP
- d) It is stimulated by citrate and ADP

3. Glucose 6-phosphatase is present only in _____

- a) Liver
- b) Muscle
- c) Epithelial tissues
- d) Kidneys

4. Which of the following statements is correct about oxidative pentose phosphate pathway?

- a) It generates NADH
- b) It oxidizes NADPH to NADP+
- c) The pathway supplies ribose 5-phosphate and NADPH in the quantities the cell requires
- d) Glucose 6-phosphatase catalyzes the rate limiting reaction of the pathway

5. The use of NADPH generated from pentose phosphate pathway cannot be _____

- a) oxidized in the electron transport chain to provide 38 ATPs

- b) Used for the synthesis of fatty acids
- c) Used for the macrophageal functions
- d) Used for steroid synthesis

6. Oxidation of palmitic acid (C16) involves ____ rounds of beta-oxidation and yields ____ molecules of acetyl-CoA.

- a) 8, 8
- b) 7, 8
- c) 16, 8
- d) 7, 7

7. Which of the following condenses acyl and malonyl groups?

- a) Acyl carrier protein
- b) Acetyl co-A ACP transacetylase
- c) β -ketoacyl ACP synthase
- d) Malonyl co-A ACP transferase

8. Which of the following phospholipids is a component of inner mitochondrial membrane?

- a) Plasmalogen
- b) Cephalin
- c) Lecithin
- d) Cardiolipin

9. How many reactions that occur in the TCA cycle transfer electrons from a substrate to an electron accepting enzyme?

- a) 1
- b) 2
- c) 3
- d) 4

10. Fatty acids are transported to liver for

- a) oxidation
- b) reduction
- c) redox reaction
- d) storage