



## SECTION B

**Q. 1 Select the correct alternative.** (5)

- \_\_\_\_\_ products are synthesized in the HMP Shunt pathway.
  - Pentoses
  - NADPH
  - Both a & b
  - None of the above
- MSUD is a genetic disorder caused due to the deficiency of the enzymes required for the metabolism of \_\_\_\_\_.
  - BCAA
  - Phenylalanine
  - Fructose
  - Lactose
- Complex V of the ETC system is \_\_\_\_\_.
  - Cytochrome oxidase
  - ATP Synthase
  - NADH-CoQ reductase
  - None of the above
- Ketone bodies are synthesized in \_\_\_\_\_.
  - Brain
  - Liver
  - Kidneys
  - Gut
- \_\_\_\_\_ hormones are responsible for the fight or flight response.
  - Thyroxine & insulin
  - Epinephrine & norepinephrine
  - Glucagon & calcitonin
  - FSH & LH

**Q. 2 Answer the following questions. (Any One)** (15)

- What is Krebs cycle? Explain using diagrammatical representation along with its significance.
- Explain  $\beta$ -oxidation proper along with the carnitine shuttle system.

**Q. 3 Write a Short note. (Any two)** (10)

- Glycolysis
  - Phenylketonuria
  - Hemoglobin & Myoglobin
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