



**Q.1. Answer the following short questions:**

**(15x2=30)**

- i. What is the difference between the hormones and pheromones?
- ii. What is the importance of Uronic acid pathway?
- iii. Enlist the name of hormones of adrenal gland
- iv. How does phosphorylation increase the reactivity of glucose?
- v. What is meant by fates of pyruvate?
- vi. Compare phospholipids and triglycerides
- vii. Why is severe hypoglycemia so dangerous?
- viii. What are prostaglandins? Where are prostaglandins released from?
- ix. Enlist the name of cells involving in the production of pancreatic hormones
- x. , epinephrine, and cortisol?
- xi. What is the Cori Cycle and importance in body?
- xii. What are bile acids and bile salts?
- xiii. What is oxytocin? Write its functions.
- xiv. How acetoacetate produced in the blood?
- xv. What are the inhibitors of electron transport chain?

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**Q.2. Answer the following questions.**

- 1 (a) Write in detail about Gluconeogenesis and its regulation (5)
- (b) What are the uncouplers of oxidative phosphorylation? (5)
- 2 ~~(a) Write about the beta oxidation of lipids~~ (4)
- (b) What are the location and functions of Thyroid and Parathyroid hormones? (3+3)
- 3 (a) Enlist the enzymes and their complex and their functions in energy production during electron transport chain (5)
- (b) Write the steps and energy production of citric acid cycle (Flow sheet diagram) (5)