

BCM SCHOOL BASANT AVENUE, DUGRI LUDHIANA
XI BIOLOGY
ASSIGNMENT

1	All the hormones are proteins, peptides and amino acid derivatives except: a. hormone of ovary b. Pancreas hormone c. Parathyroid hormone d. Thyroid hormone
2	Energy required for ATP synthesis in PS-II comes from: a. Electron gradient b. Oxidation of glucose c. Reduction of glucose d. Proton gradient
3	Assertion (A): Hydrolysis of starch into glucose is an organic chemical reaction Reason (R): Bonds are broken and new bonds are formed during transformation of starch into glucose.
4	Succinic dehydrogenase is an enzyme that causes the substrate, succinate, to breakdown into fumarate. Malonate is a substance that resembles succinate and inhibits the activity of succinic dehydrogenase. a. State the type of inhibition of succinic dehydrogenase by malonate b. Explain how this type of inhibition affects the activity of the enzyme.
5	How does oxidative phosphorylation differ from photophosphorylation?
6	A sample of urine was diagnosed to contain high amount of glucose and ketone bodies. Based on this observation answer the following questions. a. Name the endocrine gland and the hormone, related to this disorder. b. Name the cells targeted by this hormone. c. Which term is given to this condition? How it can be treated?
7	a. State the theory which explains the mechanism of muscle contraction? b. Name the thick and thin filaments in myofibrils. c. What are cross bridges? d. Justify the role of troponin in muscle contraction. e. Muscles required ATP supply to contract. What function is enabled by the ATP energy?