

i. Explain glycolysis in detail.

ii. Explain ATP production in microbes through aerobic respiration.

iii. Complete the following chart by filling the names of proteins or respective cell types in which they are produced.

	Cell types/Organ	Protein
i.		Insulin and trypsin
ii.	Cells	Various proteins of cell membrane and various
		enzymes
iii.	Pituitary glands	
iv.		Actin and myosin
v.		Hemoglobin and antibodies
vi.		Melanin and keratin
Vii.	Bones	

Q.4) Attempt any one:

[5]

- i. Explain in detail, the process of karyokinesis occurring during mitosis.
- ii. With the help of suitable diagrams, explain the five stages of prophase-I of meiosis.

Best of luck....

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