

1. Nov/2018/Paper_41/No.6

(a) Fig. 6.1 outlines some of the steps of glycolysis.

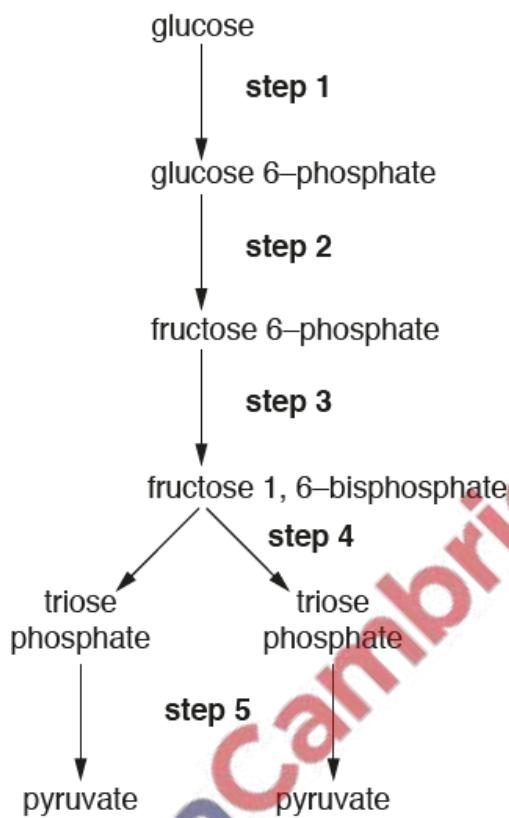


Fig. 6.1

(i) State the precise location of glycolysis in the cell.

[1]

(ii) With reference to Fig. 6.1:

state the steps where phosphorylation occurs

state the step where oxidation occurs

name the type of reaction by which ATP is made during **step 5**.

[3]

(b) Some cancer cells have different metabolic requirements from normal cells. These cancer cells obtain most of their ATP from glycolysis, even if oxygen is available.

State how the glucose and oxygen requirements of these cancer cells differ from normal cells.

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[2]

[Total: 6]

