

Topic 1: Cell Biology

Describe the characteristics of stem cells that make them potentially useful in medicine. [5]

(stem cells) have/retain the capacity to divide;

can be used to produce cell cultures/large number of identical cells;

can be used to repair/replace damaged/lost cells/tissue;

(stem cells) are undifferentiated / have not yet differentiated/specialized;

can differentiate/specialize in different ways / are pluripotent/totipotent;

can be used to form a variety of different tissues / form organs;

used in medical research;

used in treatment of (named) disease;

Draw a labelled diagram to show the structure of membranes. [5]

phospholipid bilayer – with head and tails;

hydrophilic/phosphate/polar heads and hydrophobic/hydrocarbon/fatty acid/ non-polar tails labelled;

integral protein – embedded in hydrophobic region of the phospholipid bilayer;

channel protein – integral protein showing clear channel/pore;

peripheral protein – on the surface (not embedded in hydrophobic region) can be attached to integral protein;

glycoprotein – with carbohydrate attached on outside;

cholesterol – shown embedded in bilayer;

Explain the importance of surface area to volume ratio as a factor limiting cell size. [7]

as volume of a cell increases, the ratio of its surface area to volume decreases;

food/oxygen enters through the surface of cells;

wastes leave through the surface of cells;

the rate of substance crossing the membrane depends on surface area;

more metabolic activity in a larger cell means more food and oxygen required;

Ib Biology Paper 2tzh1

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