

Marker's report for 2022 Prelim Paper 2

Section A

- 1 Fig. 1.1 shows a *Stentor*, a unicellular organism that lives in freshwater.

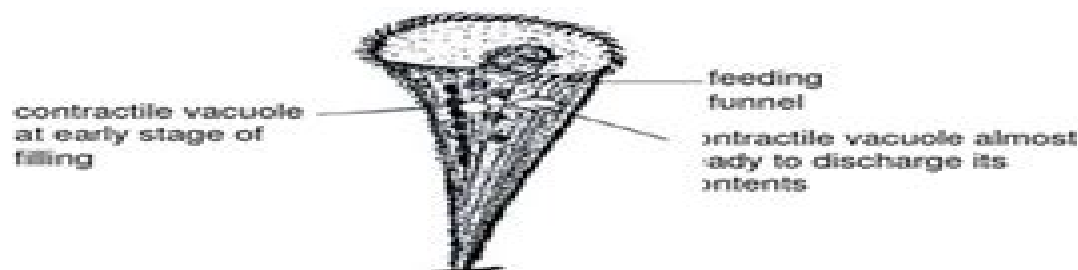


Fig. 1.1

Due to the difference in the concentration of salt inside the cell and the surrounding freshwater, the *Stentor* absorbs water from its surrounding, then discharges it by regular contractions of the contractile vacuole.

- (a) Explain the process of how water enters the *Stentor*.

Water molecules enter the cell through osmosis by passing through the partially permeable membrane of the cell membrane;

The surrounding freshwater has a higher water potential than the water potential of the contractile vacuole / cytoplasm inside the cell;

[2]

Common errors were not stating partially permeable membrane in their answers and still using terms such as concentration gradient for movement of water.

Majority were able to distinguish between which region was of a higher or lower water potential.

- (b) Explain the importance of controlling the water potential of the *Stentor* living in a freshwater environment.

The *Stentor* needs to maintain the water potential of water in it under control
OR
If water potential of freshwater env. is too high, water molecules will enter the *Stentor*;

Stentor would expand/ swell and eventually burst;

[2]

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