Respiratory system

Question Paper

Level	Pre U
Subject	Biology
Exam Board	Cambridge International Examinations
Topic	Animal physiology
Sub Topic	Respiratory system
Booklet	Question Paper

Time Allowed: 16 minutes

Score: /13

Percentage: /100

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Part - A

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Outline how ATP is suitable for acting as an energy currency.
[O]
[3]

Most ATP is made in cells by membrane systems that create proton gradients by pumping protons from one compartment to another.

Fig. 4.1 shows three such membrane systems.

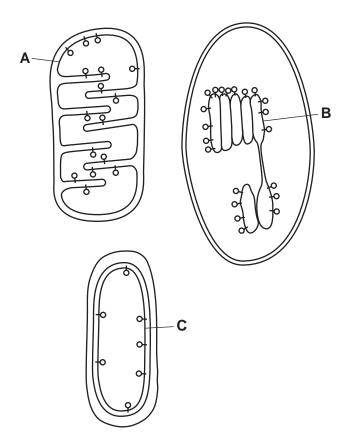


Fig. 4.1

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(b) (i)	Identify the precise location of membranes A, B and C.
	A
	В
	C
(ii)	Draw arrows onto each of the membrane systems in Fig. 4.1 to show the direction in which protons are pumped. [1]
(iii)	Outline how energy is made available for pumping protons across such membranes.
	[3]
(iv)	Explain how ATP synthase is involved in the production of ATP.
	[3]

[Total: 13]