

# 8.2 Cell Respiration

# **Question Paper**

Course	DP IB Biology
Section	8. Metabolism, Cell Respiration & Photosynthesis (HL Only)
Topic	8.2 Cell Respiration
Difficulty	Easy

Time allowed: 10

Score: /5

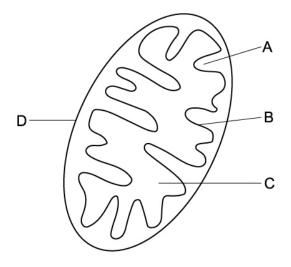
Percentage: /100



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# Question 1

The diagram below shows a mitochondrion.



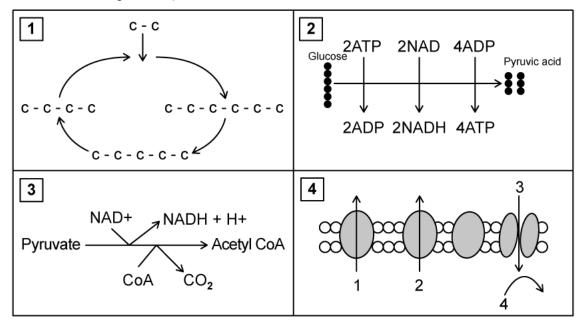
Which letter represents the mitochondrial matrix?



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# Question 2

The diagram shows the four stages of respiration.



Which row correctly identifies the stages represented in the diagram?

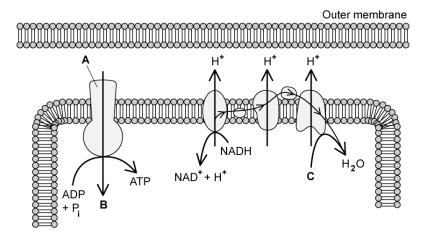
	1	2	3	4
Α	Glycolysis	The link reaction	The Krebs cycle	The electron transport chain
В	The Krebs cycle	Glycolysis	The link reaction	The electron transport chain
С	The Krebs cycle	The link reaction	Glycolysis	The electron transport chain
D	The Krebs cycle	The electron transport chain	The link reaction	Glycolysis



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### Question 3

The image shows one of the processes of respiration.



Identify the molecule labelled A.

- A. A co-transport protein
- B. A phospholipid
- C. ATP synthase
- D. DNA polymerase

[1 mark]

#### Question 4

Which process is not part of glycolysis?

- A. Pyruvate is oxidised and decarboxylated
- B. Triose phosphate is oxidised to glycerate-3-phosphate
- C. Fructose bisphosphate is split to form two molecules of triose phosphate
- D. NAD is reduced to form NADH  $+ H^+$



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### Question 5

In 1961 Peter Mitchell proposed a theory which resulted in a paradigm shift in the field of bioenergetics.

Which theory did he develop?

- A. The function of REDOX reactions in the electron transport chain
- $B. \, The \, function \, of \, oxygen \, as \, the \, final \, electron \, acceptor \,$
- C. The function of chemiosmosis in synthesis of ATP
- D. The importance of the link reaction in progressing from anaerobic to aerobic respiration