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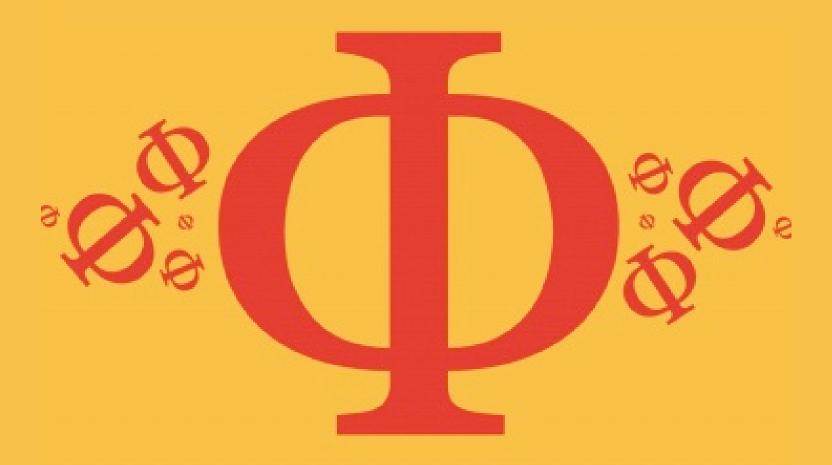
Detailed mark scheme

Suitable for all boards

Designed to test your ability and

## 8.2 Cell Respiration

Easy



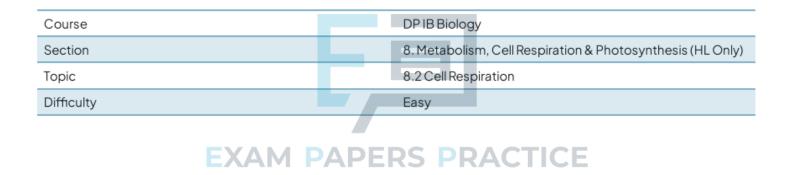
# BIOLOGY





## 8.2 Cell Respiration

### **Question Paper**

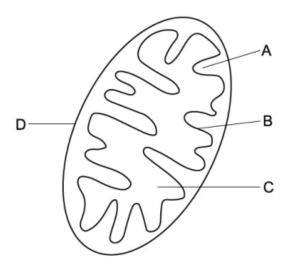


Time allowed:	10
Score:	/5
Percentage:	/100



#### Question 1

The diagram below shows a mitochondrion.



Which letter represents the mitochondrial matrix?



[1mark]



Question 2

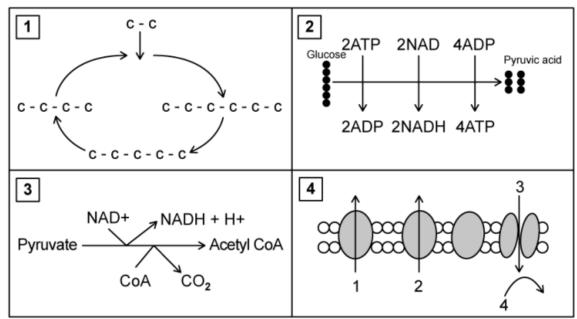
Which process is not part of glycolysis?

- 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<sup>+</sup>

#### [1 mark]

#### Question 3

The diagram shows the four stages of respiration.



Which row correctly identifies the stages represented in the diagram?

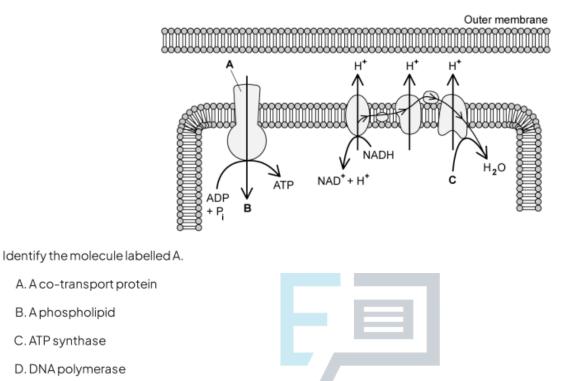
	1	2	3	4
А	Glycolysis	The link reaction	The Krebs cycle	The electron transport chain
в	The Krebs cycle	Glycolysis	The link reaction	The electron transport chain
с	The Krebs cycle	The link reaction	Glycolysis	The electron transport chain
D	The Krebs cycle	The electron transport chain	The link reaction	Glycolysis

[1mark]



#### Question 4

The image shows one of the processes of respiration.



[1 mark]

## EXAM PAPERS PRACTICE

#### 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?

C. ATP synthase

- 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

[1 mark]