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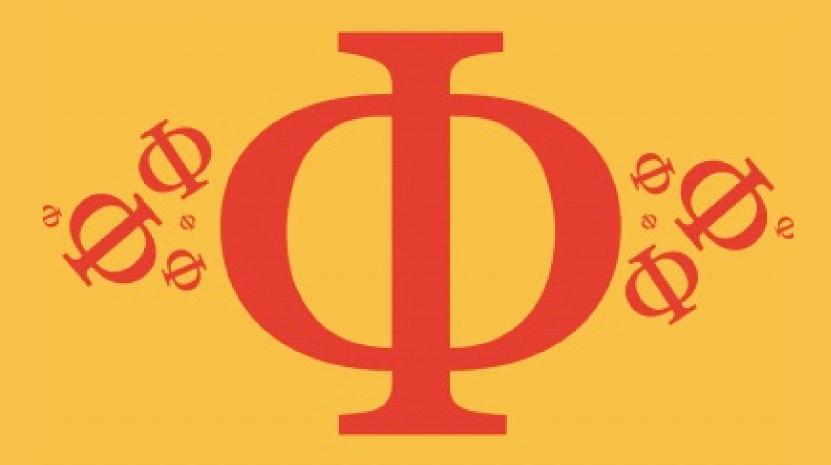
Detailed mark scheme

Suitable for all boards

Designed to test your ability and

# 8.3 Photosynthesis

Easy



# BIOLOGY

**IB HL** 



# 8.3 Photosynthesis

## **Question Paper**

Course	DP IB Biology
Section	8. Metabolism, Cell Respiration & Photosynthesis (HL Only)
Topic	8.3 Photosynthesis
Difficulty	Easy

## **EXAM PAPERS PRACTICE**

Time allowed: 10

Score: /5

Percentage: /100



#### Question 1

During which of the following processes does carbon fixation occur?

- A. Light dependent reactions
- B. Photolysis
- C. Calvin cycle
- D. Chemiosmosis

[1 mark]

#### Question 2

Which of the following scientists conducted experiments that explained the conversion of carbon into carbohydrates during photosynthesis?

- A. Martin Kamen
- B. Samuel Ruben
- C. Peter Mitchell
- D. Melvin Calvin



[1 mark]



#### Question 3

Which of the following correctly identifies the location of the light-dependent reactions?

- A. In the stroma of the chloroplast
- B. In the thylakoid intermembrane space
- C. On the outer membrane of the mitochondria
- D. On the outer membrane of the chloroplast

[1 mark]

#### Question 4

Which of the following would be a suitable definition for the term 'photolysis'?

- A. The splitting of water molecules using light energy
- B. The splitting of an oxygen molecule into oxygen atoms
- C. The splitting of water into protons, neutrons and oxygen
- D. The splitting of water by means of hydrolysis reactions

[1 mark]

### **EXAM PAPERS PRACTICE**

#### Question 5

Which of the following would not be considered an adaptation of chloroplasts to photosynthesis?

- $A. The granal \, stacks \, create \, a \, large \, surface \, area \, for \, the \, maximum \, absorption \, of \, light \, by \, the \, photosystems \, denoted by a constant of the contraction of a contraction of the contraction of the$
- B. The presence of ribosomes allows for the formation of the necessary polysaccharides involved with photosynthesis
- C. The chloroplast DNA contains genes coding for proteins and enzymes used in photosynthesis
- D. The stroma contains enzymes that catalyse the reactions of the light-independent stage

[1 mark]