Step Academy official

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STUDENT NAME	
PAPER CODE	86929
TIME ALLOWED	40
Paper Date	07-02-2026

CLASS	New 1st Year (FSC/ICS)
SUBJECT	Biology
TOTAL MARKS	25
Paper Type	

Q1. **Choose the correct answer.** 5X1=5

1. Which of the following takes the electrons lost by Photosystem I on absorption of light energy?

(A) Ferredoxin **(B)** Cytochrome **(C)** Cytochrome a-3 **(D)** Plastocyanin

2. What element is at the center of chlorophyll's porphyrin ring?

(A) Calcium **(B)** Iron **(C)** Magnesium **(D)** Potassium

3. What happens when light energy reaches the reaction centre?

(A) Glucose is formed **(B)** CO_2 is absorbed **(C)** Electrons are transferred to a primary electron acceptor **(D)** Oxygen is released

4. What does NADP become after accepting electrons and a proton?

(A) NADH **(B)** Water **(C)** NADPH **(D)** $FADH_2$

5. What is the product of alcoholic fermentation?

(A) Lactic acid **(B)** Glucose **(C)** Alcohol and CO_2 **(D)** Acetyl-CoA

Q2. **Write short answers of the following questions.** 5X2=10

1 . Where do light-dependent reactions take place?

2 . What are the three key events in light-dependent reactions?

3 . What happens when light falls on PS-II?

4 . How many ATP molecules are produced in anaerobic respiration?

5 . What is photosynthesis?

Q3. **Write detailed answers of the following questions.** 2X5=10

1 . Explain the passage of electron through electron transport chain.

2 . Through which ways proteins and fats enter cellular respiration?