Step Academy Official

Student Name	Roll Num	Class Name	Paper Code
		NEW 9TH	

Subject Name	Time Allowed	Total Marks	Exam Date
BIOLOGY	50 MINUTES	30	

Exam Syllabus
CHAP 8

Q1. Choose the correct answer. 1X6=6

1. When we get energy from ATP, which bonds are broken? **(A)** P-P bonds **(B)** C-H bonds **(C)** C-N bonds **(D)** C-O bonds

2. Light reactions of photosynthesis occur in;

(A)	(B)	(C)	(D)
Plasma membrane of cell	Cytoplasm of cell	Stroma of chloroplasts	Thylakoids of chloroplasts

3. Which wavelengths of light are absorbed to maximum by chlorophylls?

(A)	(B)	(C)	(D)
Green and blue	Green and red	Red and blue	Only green

4. When yeast ferments glucose, the products are;

(A)	(B)	(C)	(D)
Alcohol and CO_2	Alcohol and water	Lactic acid	CO_2 and H_2O

5. Where do the dark reactions of photosynthesis occur?

(A)	(B)	(C)	(D)
Stroma of chloroplast	Thylakoids of chloroplast	Outer membrane	Cytoplasm

6. Which process in aerobic respiration produces the most ATP?

(A)	(B)	(C)	(D)
Glycolysis	Krebs cycle	Electron transport chain	Fermentation

Q2. Write short answers of the following questions. 2X7=14

I . What do ATP and ADP mean? What are the roles of these molecules for the cellular metabolism?

II . Sketch and describe the structure of ATP.

III . How ATP is formed during light reaction?

IV . Write a note on anaerobic respiration.

V . Differentiate between alcoholic and lactic acid fermentation.

VI . What is Krebs cycle?

VII . Draw a sketch of Krebs cycle.

Q3. Write detailed answers of the following questions. 5X2=10

1. Outline the mechanism of aerobic respiration.

2. Compare the processes of respiration and photosynthesis.