

Name: _____						
Subject: Biology		Class: 11 th	Time: 60 minutes	Total Marks:	30	
Chapter No.11		MJDexpert.com			Obtained marks	

Q.1 Choose the correct option.

1. Chlorophyll a is found in all photosynthetic organisms except:
 - a. Diatoms b. Red algae c. Bacteria d. Euglena
2. Chlorophyll absorbs mainly wavelengths of:
 - a. Green color b. Yellow color c. Indigo color d. Violet-blue color
3. Light wavelength least absorbed by chlorophylls is:
 - a. Violet b. Blue c. Yellow d. Orange
4. A kind of chemical link between anabolism and catabolism:
 - a. Protein b. Glucose c. ATP d. None of these
5. Enzymes involved in cellular respiration are found in:
 - a. Cytoplasm b. Golgi bodies c. Mitochondria d. Endoplasmic reticulum
6. Magnesium of chlorophyll is replaced in hemoglobin by:
 - a. Calcium b. Potassium c. Iron d. Phosphorus
7. Glycolysis is the breakdown of:
 - a. Sucrose b. Lactose c. Glucose d. Maltose
8. The only photosynthetic cells of the epidermis of the leaf are:
 - a. Cortex cells b. Mesophyll cells c. Guard cells d. Xylem cells
9. Chlorophyll a of photosystem I absorbs maximum light of:
 - a. 670 nm b. 680 nm c. 690 nm d. 700 nm
10. Which is the stimulus for cyclic phosphorylation?
 - a. Low CO₂ b. Low O₂ c. Low ATP d. Low NADPH

Subjective-Section

Q. 2 Answer the following short questions: (6x2=12)

- i. Point out the role of mitochondria in respiration.
- ii. Name the process which acts as energy capturing and energy releasing.
- iii. How is carbon dioxide absorbed by the cell wall of the mesophyll cells?
- iv. Name the most common fuel used by the cell to provide energy.
- v. Write down the phases of aerobic cellular respiration.
- vi. What are the products of the light reaction of photosynthesis?

Q. 3 Answer the following long questions: (4+4=8)

- (a) Give the diagrammatic representation of non-cyclic electron flow in photosynthesis.
- (b) What is glycolysis? Sketch its various steps only.