Chapter 6

1 – During the calvin cycle CO2 is incorporated into organic compounds a process called:

A ) nitrogen fixation B ) carbon fixation

C ) dark reaction D) light reaction

2 – Which redox process photosynthesis or cellular respiration is endergonic ماص للطاقة ) (

A ) photosynthesis B) cellular respiration

3- For chloroplasts to produce sugar from carbon dioxide in the dark they would need to be supplied with …………. And ………….

A ) ADP and NADP B ) ATP and NADP

C ) ATP and NADPH D)ADP and NADPH

4 - In photosynthesis ……is oxidized and…….is reduced ?

A ) glucose , oxygen B) CO2 , water

C) water , CO2 D) water , O2

5 - Which of the following are produced by reactions that take pie in the thylakoids and consumed by reactions in the stroma?

A ) C02,H20 B)NADP , ADP

C ) ATP , NADPH D) O2 , ATP

6. When light strikes chlorophyll molecules in the reaction - center complex , they lose electron , which are ultimately replaced by

a. splitting water b. breaking down ATP c. oxidizing NADPH d. fixing carbon

7. The reactions of the Calvin cycle are not directly dependent on light, but they usually do not occur at night . Why ?

a. It is often too cold at night for these reactions to take place. b. Carbon dioxide concentrations decrease at night . c. The Calvin cycle depends on products of the light reactions . d. Plants usually close their stomata at night . e. Most plant do not make four - carbon compounds , which they would need for the Calvin cycle at night .

8. How many "turns" of the Calvin cycle are required to produced one molecule of glucose ? (Assume one CO2 is fixed in each turn of the cycle.)

a. 1 b. 2 c. 3 d. 6 e. 12

9. Which of the following does not occur during the Calvin cycle ?

a. carbon fixation b. oxidation if NADPH c. consumption of ATP d. regeneration of RuBP , the CO2 accepter e. release of oxygen