

NIOS/Acad./2020/314/11/E

National Institute of Open Schooling
Lesson 11- Photosynthesis
Worksheet-11

1. Discuss major contributions of Joseph Priestly in understanding about photosynthesis?
2. Molecular oxygen is not evolved during cyclic photophosphorylation. Give reasons.
3. Although leaves are green but a green wavelength does not play role in photosynthesis. Explain.
4. Dark reactions of photosynthesis must be preceded by light reactions. Why?
5. During photosynthesis experiments, it was observed that the concentration of RuBP increased if *Chlorella* was deprived of CO₂. Give reasons.
6. How does chemosynthesis confirm that oxygen evolved during photosynthesis comes from water and not from CO₂?
7. Mention about the end products of the light reaction of photosynthesis which are used in the dark reaction? Explain in brief.
8. Prokaryotic cells are not able to produce ATP by Chemiosmosis.
9. How the light and dark reactions of photosynthesis are interrelated? Discuss in brief.
10. Why do some bacteria such as *Nitrosomonas* and *Nitrobacter* do chemosynthesis even in dark? Give reasons in support of your answer.