Chapter 6 photosynthesis

1. Assertion: Energy is utilized from sunlight by plants during photosynthesis. It is the basis of life on our planet.

Reason: Photosynthesis is the primary source of all food on earth and it is also responsible for the release of oxygen into the atmosphere.

- A. Both assertion and reason are correct
- B. Assertion is correct but reason is incorrect
- C. Assertion is incorrect but reason is correct
- D. Both assertion and reason are incorrect
- 2. Assertion: Leaf colouration is due to the presence of four pigments Chlorophyll a, chlorophyll b, xanthophylls and carotenoids.

Reason: Chlorophyll b is the chief pigment associated with photosynthesis.

- A. Both assertion and reason are correct
- B. Assertion is correct but reason is incorrect
- C. Assertion is incorrect but reason is correct
- D. Both assertion and reason are incorrect
- tesale.co.uk tesale.co.uk tens along their walls inside the leaves. 3. Assertion: Chloroplasts mostly occur in ness (1)

Reason: The membrane system of coloroplast is responsible for trapping the light energy and also for the synthesis of ATP and NADPH.

A. Po ha sertion and reason are or

B. Assertion is correct Lat 12300 s incorrect

- C. Assertion is incorrect but reason is correct
- D. Both assertion and reason are incorrect.
- 4. Assertion: 6 molecules of CO₂ and 12 molecules of NADPH+ + H+ and 18 ATP are used to form one glucose molecule.

Reason: Light reaction results in formation of ATP and NADPH₂.

- A. Both assertion and reason are correct
- B. Assertion is correct but reason is incorrect
- C. Assertion is incorrect but reason is correct
- Both assertion and reason are incorrect D.
- **5. Assertion**: plants does photosynthesis during day and respiration during night.

Reason: Photosynthesis occur in the presence of sunlight whereas respiration don't.

- A. Both assertion and reason are correct
- B. Assertion is correct but reason is incorrect
- C. Assertion is incorrect but reason is correct
- D. Both assertion and reason are incorrect