

1. Autotrophic organisms
 - (A) depend on other organisms for food
 - (B) hunt for the food
 - (C) synthesize their own food
 - (D) cannot synthesize their food
2. Photosynthesis occurs in which part of the plant cell
 - (A) chloroplast
 - (B) mitochondria
 - (C) cytoplasm
 - (D) nucleus
3. Plants are green because they
 - (A) refract green light
 - (B) absorb green light
 - (C) reflect green light
 - (D) do not absorb UV light
4. Stomata are present in large numbers on
 - (A) stem
 - (B) dorsal side of the leaf
 - (C) ventral side of the leaves
 - (D) roots
5. Stroma and grana are the parts of
 - (A) golgi complex
 - (B) lysosomes
 - (C) mitochondria
 - (D) chloroplast
6. First stable product formed during photosynthesis after absorbing carbondioxide is
 - (A) phosphoglyceric acid (PGA)
 - (B) NADP
 - (C) ATP
 - (D) NADPH
7. Chloroplasts are richly present in
 - (A) epidermis
 - (B) palisade parenchyma
 - (C) spongy parenchyma
 - (D) vascular bundles
8. Glyceraldehyde – 3 – phosphate is formed directly from
 - (A) ribulose-1,5 biphosphate
 - (B) hexose sugar
 - (C) phosphoglyceric acid
 - (D) all of these
9. Which of the following equation most adequately sums up the photosynthetic reaction?
 - (A) $CO_2 + H_2O + light \rightarrow CH_2O + O_2$
 - (B) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$
 - (C) $6CO_2 + 6H_2O \xrightarrow{\text{chlorophyll}} C_6H_{12}O_6 + 6O_2$
 - (D) $6CO_2 + 12H_2O \xrightarrow[\text{sunlight}]{\text{chlorophyll}} C_6H_{12}O_6 + 6O_2 + 6H_2O$
10. During photosynthesis, the oxygen in glucose comes from
 - (A) water
 - (B) carbondioxide
 - (C) both from water and carbondioxide
 - (D) oxygen in the air
11. Chlorophyll is present in
 - (A) chloroplast
 - (B) mitochondria
 - (C) stroma
 - (D) ribosomes
12. Dark reaction in photosynthesis is called so because
 - (A) it does not require light energy
 - (B) cannot occur during day time
 - (C) it occurs more rapidly at night
 - (D) it can also occur in darkness
13. Which of the following are the features of photosynthesis?
 - (A) production of carbohydrates
 - (B) production of oxygen
 - (C) conversion of light energy into chemical energy
 - (D) all the above
14. Light is necessary during photosynthesis for
 - (A) heating
 - (B) opening of stomata
 - (C) evolution of hydrogen
 - (D) photolysis of water

15. CO_2 and O_2 balance in atmosphere is due to
 (A) photorespiration (B) photosynthesis
 (C) respiration (D) none of the above
16. Where do the energy capturing reactions of photosynthesis occur?
 (A) plasma membrane (B) cytoplasm
 (C) stroma (D) thylakoids
17. The source of O_2 liberated in photosynthesis is
 (A) photosynthetic enzyme (B) carbohydrate present in leaf
 (C) water (D) carbondioxide
18. The first step in photosynthesis is
 (A) joining of 3-carbon atoms to form glucose
 (B) ionisation of water
 (C) excitement of an electron of chlorophyll by a photon of light
 (D) formation of ATP
19. Which of the following wavelength of light is absorbed maximum for photosynthesis?
 (A) red light (B) blue light (C) green light (D) yellow light
20. Which of the following is the least effective in photosynthesis?
 (A) red light (B) blue light (C) green light (D) violet
21. Photosynthesis proceeds in sequence of
 (A) Dark phase and light phase (B) Light phase alone
 (C) Light phase and dark phase (D) Dark phase alone
22. Carbon gets reduced during which event
 (A) Light-dependent reactions (B) Light-independent reactions
 (C) Both 1 and 2 (D) None of the above
23. Which one is anabolic process?
 (A) Respiration (B) Digestion (C) Photosynthesis (D) Transpiration
24. The carbohydrate reserve of plants is
 (A) Starch (B) Glycogen (C) Fat (D) Cellulose
25. Stomata open when guard cells are
 (A) Swollen (B) Non-swollen (C) Flaccid (D) Both 2 and 3
26. Mushroom, Rhizopus and Yeast are
 (A) Chemosynthetic (B) Parasitic (C) Holozoic (D) Saprotrophs
27. Choose the forms in which most, plants absorb nitrogen
 i. Proteins ii. Nitrates iii. Nitrites iv. Atmospheric nitrogen
 (A) i and ii (B) ii and iii (C) iii and iv (D) i and iv

KEY

1. C	2. A	3. C	4. C	5. D	6. A	7. B	8. C	9. D	10. B
11. A	12. A	13. D	14. D	15. B	16. D	17. C	18. C	19. A	20. C
21. C	22. B	23. C	24. A	25. A	26. D	27. B			

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