

25. What is the name of the orange-colored photosynthetic pigment that absorbs light for photosynthesis?

- a) Xanthophyll
- b) Carotene
- c) Chlorophyll a
- d) Chlorophyll b
- e) Photosynthophyll

26. What color is the photosynthetic plant pigment known as xanthophyll?

- a) blue-green
- b) red
- c) yellow
- d) orange
- e) medium-green

27. In what organelle (part of a plant cell) is where photosynthesis takes place?

- A) Chloroplast
- B) Amyloplast
- C) Mitochondria
- D) Cell Wall

28. What color is the photosynthetic plant pigment known as carotene?

- A) Red
- B) Blue
- C) Blue-green
- D) Yellow
- E) Orange

29. Name the main product of the light independent reactions of photosynthesis.

- a) Oxygen
- b) Carbon Dioxide
- c) ATP
- d) Glucose

30. The light dependent reactions can be subdivided into what 2 ATP producing reactions?

- a) Oxidative Decarboxylation & Krebs Cycle
- b) Light Independent & Calvin Cycle
- c) Cyclic & Noncyclic Photophosphorylation

31. What is the function of ATP in all cells?

32. A yellow leaf is able to absorb & use yellow light during photosynthesis.

True or False?

33. What is the source of most if not all of the oxygen in the earth's atmosphere?

34. List 2 products of photosynthesis that all aerobic organisms need.

35. Name the process which changes light energy to chemical energy.

- a) Aerobic Respiration
- b) Anaerobic Respiration
- c) Photosynthesis
- d) Osmosis

36. Explain the effect increasing temperature has on the rate of photosynthesis.