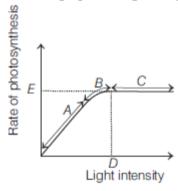
- 15. What will be the effect when very high intensity of light is supplied to a photosynthesis system
 - (a) Process will increase
 - (b) Process will decrease
 - (c) Process will stop due to solarization
 - (d) None of the above

16. Plant factors affecting photosynthesis include

- (a) number, age, size and orientation of leaves, mesophyll cells and chloroplast, internal CO₂ concentration and the amount of chlorophyll
- (b) nature of leaves, size of mesophyll cell and light
- (c) mesophyll cells distribution and temperature
- (d) quantity of chlorophyll, size of leaves and CO₂
- 17. The internal factors that affect photosynthesis of plant depend on the
- (a) morphological predisposition
- (b) genetic predisposition
- (c) temperature
- (d) environmental predisposition
- **18.** Law of limiting factor in relation to photosynthesis is proposed by
- (a) Blackman
- (b) Wiseman
- (c) Calvin
- (d) Emerson
- **19.** Light compensation point is the point where
- (a) gaseous exchange occurs in photosynthesis
- (b) gaseous exchange does not occur in photosynthesis
- (c) gaseous exchange reduces in photosynthesis
- (d) light intensity become appropriate for photosynthesis
- 20. Study the following graph showing the effect of light intensity on the rate of photosynthesis. Which of the following option regarding this is correct?



- (a) Light is a limiting factor in the region-A
- (b) Region C represents that rate of photosynthesis is not increased further by increasing light intensity bacause some other factor becomes limiting
- (c) Point D represents the intensity of light at which some other factor becomes limiting
- (d) All of the above
- **21.**Light is rarely a limiting factor in nature except in
- (a) maize
- (b) sugarcane
- (c) Sorghum
- (d) plants in shade or in dense forests
- **22.** Under normal condition, which one of the following is a major limiting factor?
- (a) Light

- (b) CO₂
- (c) Temperature
- (d) Chlorophyll
- 23.C3 plants show optimum photosynthesis at (a) high O₂ concentration
 - (b) high CO₂ concentration
- (c) low O₂ concentration
- (d) high temperature 45°C
- **24.** The plants that respond to higher temperatures and show higher rate of photosynthesis are
- (a) C₄ (b) C₃
- (c) CAM (d) Both (a) and (b)
- **25.** I. Tropical plants have a...A...than plants adapted to temperate climates.
- II. Water has a/an...B...effect on the rate of photosynthesis.
- III. The optimum temperature for photosynthesis of different plants depends on ... C....

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Identify A and B and choose the correct option.

C В (a) higher temperature optimum direct habitat (b) lower temperature optimum indirect water (c) lower temperature optimum direct light (d) higher temperature optimum indirect habitat

- **26.** I. Temperature
 - II. CO₂ concentration
 - III. Chlorophyll arrangement
 - IV. Water

Among the given factors, identify the external factors that affect the rate of photosynthesis and the correct option accordingly. choose

- (a) I, II and IV
- (b) I, II and III
- (c) II, III and IV
- (d) I, III and IV
- 27. Light is rarely a limiting factor in nature except in -
 - (a) Maize
- (b) Sugarcane
- (c) Sorghum
- (d) Plants in shade or in dense forests
- **28.** Under the normal condition which one is the major limiting factor?

 - (a) CO₂ conc. (b) Light (c) Temperature (d) Chl. Conc.
- 29. Under water stress, the rate of photosynthesis declines because of -
 - (a) Stomatal closure leading to decrease in CO₂ supply
 - (b) Reduced water potential that decreases leaf surface areas for photosynthesis
 - (c) Both
 - (d) Turgidity of leaf
- 30. At higher light intensities the rate of photosynthesis decreases because of -
 - (a) Other factors becoming limiting
 - (b) Destruction / photoxidation of chlorophyll
 - (c) Both a and b
 - (d) Carotenoids are killed

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1.	1. (c)	
2.	2. (a)	
3.	3. (c)	
4.	4. (a)	
5.	5. (d)	
6.	6. (b)	
7.	7. (c)	
8.	8. (c)	
9.	9. (c)	
10.	10. (a)	
11.	11. (d)	
12.	12. (a)	
13.	13. (d)	
14.	14. (a)	
15.	15. (c)	
	16. (a) 17. (b)	
	18. (a) Law of limiting factor was proposed by FF Blackman (1905). It stated that separate factors, the rate of the process is limited by the pace of the slowest factors.	-
19.	19. (<i>b</i>) There is a point in the light intensity, where there is no gaseous exchange point.	in photosynthesis. It is called light compensation
20.	20. (<i>d</i>) All options are correct. In the given graph, rate of photosynthesis initially A) but soon it is levelled off. Thus, initially light intensity was limiting the raws present in sufficient amounts (region C), rate of photosynthesis did not in C, some other factor (e.g. CO2 concentration) becomes the limiting factor. At further enhanced only by the increase in availability of other limiting factor (e.g. which some other becomes limiting.	te of photosynthesis. However, when light intensity acreases further. This is due to the fact that in region t this region, the rate of photosynthesis could be
	21. (<i>d</i>) In nature, light is rarely a limiting factor except for plants in shade or in dowhich is least quantity in the plant and we know that sunlight is always in abudense forest.22. (<i>b</i>) Carbon dioxide is usually a limiting factor in photosynthesis under norma adequate water supply.	indance to plants except for plants in shade or in
23.	23. (b)	

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24. 25.					
	(a) The external factors would include the availability of sunlight, photosynthesises, all these factors will simultaneously affect its ra				
27.	(d)				
28.	(a)				
29.	(c)				
30.	(b)				
	BY SWADHIN SIR				