

Class : XI<sup>th</sup>  
Date :

Subject : BIOLOGY  
DPP No. : 8

## Topic :- Plant Growth & Development

- Richmond-Lang effect is concerned with
  - Delay in senescence
  - Breaking dormancy
  - Suppression of apical dominance
  - Cell elongation
- Which type of tropism is shown by tulip and sunflower respectively?
  - Thigmonasty and photonasty
  - Hydronasty and thermonasty
  - Thermonasty and photonasty
  - Hydronasty and photonasty
- Which one is short day plant?
  - Brassica campestris*
  - Raphanus sativus*
  - Glycine max*
  - Papaver somniferum*
- Gibberellin was first discovered from
  - Algae
  - Fungi
  - Bacteria
  - Roots of higher plants
- Winter varieties of wheat and barley are planted in
  - Spring season
  - Winter season
  - Autumn season
  - Summer season
- With respect to photoperiodism, these are long day plants.
  - Wheat, oat, soybean
  - Wheat, *Xanthium*, paddy
  - Wheat, poppy, soybean
  - Wheat, poppy, beet
- Which of the following flowers shows nyctinastic movement?
  - Pentapetes*
  - Albizzia lebbek*
  - Mimosa pudica*
  - Bryophyllum*
- Ethylene is connected with
  - Aerobic respiration
  - Climacterics
  - Anaerobic
  - Fermentation
- Chooses the incorrect statement
  - PGR has diverse physiological effects on plants
  - PGR may act synergically or antagonistically
  - Two PGR can have same effect
  - GA fasters the maturity period

10. In the most situation, ABA acts as the  
 a) Agonist for auxin  
 b) Antagonist to gibberellin  
 c) Antagonist of auxin  
 d) Agonist to gibberellins
11. If shoot cuttings are treated with auxin then  
 a) Root production takes place  
 b) Shoot elongation takes place  
 c) Both (a) and (b)  
 d) Lateral dominance takes place
12. Ethylene is used  
 a) To decrease the senescence  
 b) To increase the heights of stem  
 c) For ripening of fruits  
 d) For prevention of leaf fall
13. Growth curve is the  
 a) Pictorial representation of total growth/space  
 b) Graphical representation of total growth/space  
 c) Graphical representation of total growth/time  
 d) All of the above
14. Hormone replacing the requirement of vernalization is  
 a) ethylene  
 b) auxin  
 c) gibberellins  
 d) Cytokinin
15. Photoperiod was first observed in  
 a) Potato  
 b) Maryland mammoth  
 c) Four O'clock  
 d) Evening primrose
16. Decapitation (shoot tip removal) is widely used in  
 a) Blotting  
 b) Hedge making  
 c) Tea plantation  
 d) Both (b) and (c)
17. Phototropic curvature is the result of uneven Distribution of  
 a) Gibberellin  
 b) Phytochrome  
 c) Cytokinins  
 d) Auxin
18. In photoactive plants, during day time the following ionic flux of guard cell is directly involves the expenditure of energy.  
 a) Outward movement of malate  
 b) Inward movement of potassium ions  
 c) Outward movement of protons  
 d) Inward movement of chloride
19. Which one of the following statement is incorrect?  
 a) Apparent growth is an irreversible increase in mass or volume  
 b) Real growth is the formation of new protoplasm  
 c) Growth in plants is open ended  
 d) Growth in plants is closed ended
20. Which hormone causes stunted growth in pea?  
 a) Gibberellic acid  
 b) Auxin  
 c) Cytokinin  
 d) Ethylene

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