

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

Subject : BIOLOGY  
DPP No. : 2

## Topic :- Plant Growth & Development

- Charles Darwin and Francis Darwin are related with
  - Vernalisation
  - Effect of plant hormones (auxin)
  - Photoperiodism
  - Phototropism
- Vernalisation can be reversed by
  - Application of high temperature
  - Application of auxin
  - Application of more less temperature
  - Application of gibberellins
- Constantly dividing cells, both at the root apex and shoot apex represents
  - Elongation phase of the growth
  - Meristematic phase of the growth
  - Maturation phase of the growth
  - None of the above
- In most of the higher plants, the growing ...A... bud inhibits the growth of ...B... bud, a phenomenon called apical dominance. Removal of the shoot tips usually results in growth of ...C... buds. Complete the given statement with the correct combination of options given in the codes below
  - A-lateral, B-axillary, C-axillary
  - A-apical, B-lateral, C-apical
  - A-apical, B-lateral, C-lateral
  - A-lateral, B-apical, C-lateral
- How many gibberellins are reported from widely different organism such as plant and fungi?
  - More than 50
  - More than 75
  - More than 100
  - More than 25
- Absciscic acid is primarily synthesized in
  - Lysosomes
  - Golgi complex
  - Chloroplast
  - Ribosomes
- Cytokinins are formed in
  - Roots
  - Leaves
  - Fruits
  - Stems
- Which hormone (PGR) encounters the apical dominance induced by auxin?
  - IAA
  - Cytokinin
  - C<sub>2</sub>H<sub>4</sub>
  - NAA

9. The terms auxin is applied to  
 I. IAA      II. IBA  
 III. NAA    IV. 2-4-D  
 Select the correct option  
 a) I, II and III                      b) II, III and IV                      c) I, III and IV                      d) I, II, III and IV
10. Which of the following is an anti-gibberellin?  
 a) Auxin                                  b) ABA                                  c) Ethylene                              d) Cytokinin
11. Which hormone is responsible for apical growth?  
 a) IAA                                      b) ABA                                      c) GA                                      d) All of these
12. Increase in the girth of plant (organ) takes place by  
 a) Vascular cambium                      b) Cork cambium  
 c) Both (a) and (b)                      d) Root and shoot apical meristem
13. Effect of photoperiod on growth and development of plants especially on flowering is called  
 a) Vernalisation                      b) Photoperiodism                      c) Both (a) and (b)                      d) Phototaxis
14. Vernalisation was found by  
 a) FW Went                                  b) Darwin                                  c) Lysenko                                  d) Cousins
15. The phytohormone that helps in germination of seed, is  
 a) ABA                                      b) Auxin                                      c) Gibberellin                              d) Cytokinin
16. Gibberellic acid induces flowering  
 a) In some gymnospermic plants only                      b) In long day plants under short day conditions  
 c) In short day plants under long day conditions                      d) In day –neutral plants under dark conditions
17. Vernalization is done at  
 a) Lower temperature                      b) Low light intensity                      c) Higher temperature                      d) High light intensity
18. Development includes (plants)  
 I. Differentiation  
 II. Redifferentiation  
 III. Dedifferentiation  
 Select the right combination from the given option  
 a) I and II                                  b) II and III                                  c) III and I                                  d) I, II and III
19. 'Bakane' disease is related to (hormone and plant)  

<b>Hormone</b>	<b>Plant</b>		
a) Auxin	Wheat	b) Cytokinin	Corn
c) Gibberellin	Rice	d) Ethylene	Tomato

20. One set of a plant was grown at 12 hours day 12 hours night period cycles and it flowered, while in the other set night phase was interrupted by flash of light and it did not produce flower. Under which one of the following categories will you place this plant?
- a) Long day                      b) Darkness neutral                      c) Day neutral                      d) Short day

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