DPP
DAILY PRACTICE PROBLEMS

Class : XIth **Subject : BIOLOGY**
Date : **DPP No. : 10**

Topic :- Plant Growth & Development

1. Rapid and dramatic increase in shoot length is called
   a) Triple response growth b) Bolting
   c) scarification d) Night break effect

2. Environment heterophylly is seen in
   a) Cotton b) Coriander c) Larkspur d) Buttercup

3. Genetically dwarf plants can be induced to grow tall by using
   a) Gibberellins b) Phycobillins c) Auxins d) Cytokinins

4. Increased growth per unit time is termed as
   a) Nascent growth rate b) Growth rate c) Biomass d) All of these

5. Which plant hormone promotes seed dormancy, bud dormancy and causes stomatal closure?
   a) IAA b) Abscisic acid c) GA d) Cytokinin

6. I. Lag phase → Log phase → Stationary phase
   II. Geometric and Arithmetic phase of growth
   III. Growth shown by all living organism *in vivo*
   IV. $L_t = L_0 + rt$
   Match the above characters with sigmoid curve, arithmetic growth, embryo development and choose the correct option accordingly

	Sigmoid curve	Arithmetic growth	Embryo development			
a)	II	I	III, IV	b) I, III	IV	II
c)	I	II, III	IV	d) III, IV	I	II

7. A plant have 13 hours critical day light under which condition it will flower

	Duration of light period	Duration of dark period			
a)	13	11	b)	11	13
c)	12	12	d)	10	14

8. The shedding of leaves, flowers or fruits due to change in the hormonal balance in plants, is referred as
a) Senescence b) Ascission c) Photoperiodism d) Vernalization

9. The phytohormone that induces cell elongation is known to be produced by a fungus. The asexual stage of this fungus is called
a) *Rhizopus sexualis* b) *Fusarium moniliformae*
c) *Gibberella fujikuroi* d) *Fusarium oxysporum*

10. Cytokinins are mostly
a) Glucosides b) Amino purines c) Acidic d) Phenolic

11. Geotropic response is perceived by
a) Mature roots b) Elongation roots c) Root cap d) Root hairs

12. The natural plant hormone isolated from corn kernels and coconut milk is
a) Florigen b) GA_3 c) Free auxins d) Zeatin

13. In the expression, $W_1 = W_0\, e^{rt}$ (geometrical growth), W_1, W_0, r, t represents

	W_0	W_1	r	t
a)	Initial size	Final size	Growth rate	Time of growth
b)	Final size	Initial size	Growth rate	Time of growth
c)	Final size	Initial size	Growth rate	Time of dividing
d)	Initial size	Final size	Growth rate	Time of dividing

14. Natural cytokinins are synthesized in tissue that are
a) Senescent b) Dividing rapidly c) Storing food material d) Differentiating

15. Which of the following processes is concerned with Cholodny-Went theory?
a) Photomorphogenesis b) Photoperiodism c) Phototropism d) Photorespiration

16. Growth at cellular level is the increase in the amount of
a) Cell wall b) Cell membrane c) Protoplasm d) All of the above

17. Which one of the following is a natural growth inhibitor?
a) NAA b) ABA c) IAA d) GA

18. I. Antagonist to GA
II. Promoted bud dormancy
III. Promoted stomatal closure
IV. Promoted abscission layer
Identify the hormone/s which promote/s all these events in plants and choose the correct option
a) Cytokinin b) Auxin c) Abscisic acid d) C_2H_4

19. Thigmotropism is best seen in
a) Tendrils b) Leaf apex c) Root apex d) Stem apex

20. In coleoptile tissue, auxin is
a) Not transported because it is used where it is made
b) Transported by diffusion
c) Transported from the base to tip by osmosis
d) Produced by growing apices of stem, which migrate to the region of its action