

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

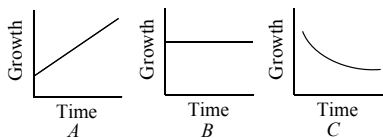
Subject : BIOLOGY  
DPP No. : 4

## Topic :- Plant Growth & Development

1. In expression,  $L_t = L_0 + rt$ , of arithmetic growth rate,  $L_t$ ,  $L_0$  and  $r$  represents
- |                           |                        |                          |  |
|---------------------------|------------------------|--------------------------|--|
| $L_t$                     | $L_0$                  | $r$                      |  |
| a) Length at time zero    | Length at time ' $t$ ' | Elongation per unit time |  |
| b) Length at time ' $t$ ' | Length at time zero    | Elongation per unit time |  |
| c) Length at time ' $t$ ' | Length at time zero    | Growth rate              |  |
| d) Both (b) and (c)       |                        |                          |  |
2. Ethephon
- |                                      |                          |
|--------------------------------------|--------------------------|
| a) Hasten fruit ripening in tomatoes | b) Accelerate abscission |
| c) Promote female flower cucumbers   | d) All of the above      |
3. The chemical nature of gibberellins is
- |           |             |                  |           |
|-----------|-------------|------------------|-----------|
| a) Acidic | b) Alkaline | c) Proteinaceous | d) Amines |
|-----------|-------------|------------------|-----------|
4. Which hormone was first isolated from human urine?
- |          |        |             |                     |
|----------|--------|-------------|---------------------|
| a) Auxin | b) ABA | c) Ethylene | d) Gibberellic acid |
|----------|--------|-------------|---------------------|
5. Which phytohormone has viral inhibitory property?
- |        |           |        |          |
|--------|-----------|--------|----------|
| a) IAA | b) $GA_3$ | c) ABA | d) 2,4-D |
|--------|-----------|--------|----------|
6. Which of the following is the effect of a plant hormone, which is synthesized more in the absence of light?
- |  |                                       |
|--|---------------------------------------|
| a) Inhibits the development of seedless fruits | b) Responsible for closing of stomata |
| c) Induces the dormancy of seeds               | d) Length of internodes increases     |
7. Shock movement in 'touch me not' plant is
- |                |               |               |                |
|----------------|---------------|---------------|----------------|
| a) Seismonasty | b) Photonasty | c) Chemonasty | d) Thermonasty |
|----------------|---------------|---------------|----------------|
8. Vernalisation helps in
- |                                     |                                 |
|-------------------------------------|---------------------------------|
| a) Shortening of reproductive phase | b) Shortening of juvenile phase |
| c) Shortening of vegetative phase   | d) Both (a) and (c)             |

9. Efficiency index in the exponential phase of geometrical growth is the ability of plants to produce
- a) Cell wall  
b) New enzyme  
c) New plant material  
d) Young ones through mitosis
10. Day neutral plant relates to
- a) Loss of activity during day time  
b) Overactive during day time  
c) Flowering in all possible photoperiods  
d) No flowering in any photoperiod
11. Opening of flower is an example of
- a) Spontaneous movement  
b) Hyponastic movement  
c) Epinastic movement  
d) Cleistogamous movement

12. Among the following given graphs, which show the linear growth curve?



- a) A and B  
b) B and C  
c) A and C  
d) Only A
13. Which of the following movements is induced by injury?
- a) Aerotropism  
b) Geotropism  
c) Tromonasty  
d) Traumatropism
14. Substance related with phototropism in shoot, is
- a) Ethanol  
b) Cytokinins  
c) Auxin  
d) Gibberellins
15. I. Plasmatic growth  
II. Differentiation  
III. Maturation  
IV. Senescence
- Identify the correct sequence of the following events occurring in plants and choose the correct option accordingly
- a) I → II → III → IV  
b) I → II → IV → III  
c) IV → III → II → I  
d) IV → I → II → III
16. Which pigment involves in photoperiodic change in plants?
- a) Phytochrome  
b) Cytochrome  
c) Chlorophyll  
d) Anthocyanin
17. Initially, the ABA was identified as
- a) Inhibitor B  
b) Abscission II  
c) Dormin  
d) All of these
18. Florigen is produced in the region of
- a) Leaves  
b) Fruit  
c) Root  
d) Trunk

19. I. Cell elongation  
II. Cell division  
III. Cell differentiation

Among the above mentioned, what is/are the function(s) of auxin?

- a) I and II                      b) III and I                      c) II and III                      d) I, II and III

20. Closure of lid of pitcher, in pitcher plant, is

- a) Tropic movement                      b) Paratonic movement  
c) Turgor movement                      d) Autonomous movement

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