



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### PLANT GROWTH AND DEVELOPMENT

#### Exercise

1. In unisexual plants, sex can be changed by the application of

A. Ethanol

B. Cytokinins

C. ABA

D. Auxin

**Answer:**



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**2. Seed dormancy allows the plants to**

A. overcome unfavourable climatic conditions

B. develop healthy seeds

C. reduce viability

D. prevent deterioration of seeds

**Answer:**



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3. The mineral \_\_\_\_\_ is required for synthesis of IAA.

A. Copper

B. Magnesium

C. Zinc

D. Boron

**Answer:**



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4. In vitro fertilisation means the fertilisation done inside the body.

A. Spring like

B. Winter like

C. Wind like

D. Water like

**Answer: Select the correctly matched one**



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5. Select the correctly matched one

(A) Human urine - (i) Auxin-B

(B) Corn gram -(ii)  $GA_3$

(C) Fungus - (iii) Abscisic acid II

(D) Herring fish sperm - (vi) Kinetin

(E) Uniripe maize grains - (v) Auxin A

(F) Young cotton bolls - (vi) Zeatin

A. A-iii, B-iv, C-v, D-vi, E-i, F-ii,

B. A-v, B-i, C-ii, D-iv, E-vi, F-iii,

C. FungA-iii, B-v, C-vi, D-i, E-ii, F-iv,us - iii)

Absciscic acid II

D. A-ii, B-iii, C-v, D-vi, E-iv, F-i

**Answer: Herring fish sperm - iv) Kinetin**



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**6. Define the term plasticity. Give example.**



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7. What are the parameters used to measure growth of plants?



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8. What is apical dominance.



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9. Define Bolting.



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**10.** What is the formula used to measure the growth of plants of plants by Arc auxanometer?



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**11.** Name the any one method of breaking dormancy of seeds and explain.



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**12.** What is the agricultural role of ethylene?



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**13.** Which one is stress hormone



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**14.** Why is it called so?



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**15.** Write the physiological effect of Cytokinins.



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**16.** Give a brief account on Programmed Cell Death (PCD).



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**17.** Tabulate the differences between short long day plants and long short day plants.



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**18. Define redifferentiation.**



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**19. Describe Went experiment.**



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**20.** Describe the mechanism of photoperiodic induction of flowering.



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**Example**

**1.** What are monocarpic annual plants?



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2. What are monocarpic perennials?



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3. What are polycarpic perennial plants?



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4. Define differentiation.



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5. Define redifferentiation.



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6. What is meant by grand period of growth in plants?



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7. Name the plant growth regulators?



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**8.** What is apical dominance.



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**9.** What is 'Agent orange'?



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**10.** Define Bolting.



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**11.** What is Richmond Lang effect?



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**12.** Define photoperiodism.



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**13.** Phytochrome is



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**14.** Write a note on vernalization.



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**15.** Define seed dormancy.



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**16.** Define Abscission.



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**17.** What are non-climatcteric fruits?



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**18.** Name the gaseous plant hormone.



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**19.** Define long day plants?



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**20.** Define short day plants?



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**21.** Define phyto gerontology.



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**22.** What is meant by epigeal germination?



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**23.** What is meant by hypogeal germination?



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**24.** What does bioassay mean?



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**25.** Define growth.



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**26.** Define etiolation.



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**27.** What is florigen?



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**28.** Define seed germination.



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**29.** Define scarification.



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**30.** Define kinetics of growth.



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**31.** Define growth rate and list its types.



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**32. What is Dedifferentiation?**



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**33. What are climacteric fruits?**



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**34. What is seed dormancy ? Explain the methods of breaking dormancy.**





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