BIOLOGY

BOOKS - PSEB

PLANT GROWTH AND DEVELOPMENT

Exercise

1. Define growth, differentiation, development, dedifferentiation, redifferentiation,

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2. determinate growth, meristem and growth rate.

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3. Why is not any one parameter good enough to demonstrate growth throughout the life of a flowering plant?

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4. Describe briefly: Arithmetic growth

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5. Describe briefly: Geometric growth

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6. Describe briefly: Sigmoid growth curve

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7. Describe briefly: Absolute and relative growth rates

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8. List five main groups of natural plant growth regulators. Writea note on discovery, physiological functions and agricultural/horticultural applications of any one of them.

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9. What do you understand by photoperiodism and vernalisation? Describe their significance.

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10. Write functions of abscisic acid

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11. 'Both growth and differentiation in higher plants are open'. Comment.

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12. 'Both a short day plant and a long day plant can produce flower simultaneously in a given place'. Explain.

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13. Which one of the plant growth regulators would you use if you are asked to:

A. induce rooting in a twig

B. quickly ripen a fruit

C. delay leaf senescence

D. induce growth in axillary buds

Answer:

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14. Would a defoliated plant respond to photoperiodic cycle? Why?

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15. What would be expected to happen if: GA3 is applied to rice seedlings

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16. What would be expected to happen if: you forget to add cytokinin to the culture medium.

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17. What would be expected to happen if: you forget to add cytokinin to the culture medium.

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18. What would be expected to happen if: you forget to add cytokinin to the culture medium.

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