



BIOLOGY

BOOKS - MAXIMUM PUBLICATION

Plant Growth & Development

Exercise

1. The ripening of fruits can be fastened by treatment with

A. gibberellins

B. cytokinins

C. ethylene gas

D. auxin

Answer: C



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2. 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

Answer: D



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3. Leaf abscission is caused by

A. ABA

B. cytokinin

C. auxin

D. gibberellin

Answer: A



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4. A hormonee delaying senescence is

A. auxin

B. cytokinin

C. ethylene

D. gibberellin

Answer: B



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5. Which of the following induces bolting in rosette plants?

A. Gibberellins

B. Cytokinin

C. Auxins

D. Ethylene

Answer: A



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6. Sprouting of potato under storage condition can be prevented by

A. auxin

B. gibberellin

C. ethylene

D. cytokinin

Answer: A



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7. The plant hormone produced by Rhizobium for nodulation is

A. IBA

B. NAA

C. 2, 4 – *D*

D. IAA

Answer: D



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8. Cell elongation in internodal regions of the green plants takes place due to

A. indole acetic acid

B. cytokinins

C. gibberellins

D. Ethylene

Answer: C



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9. How does pruning help in making the hedge dense?

- A. it induces the differentiation of new shoots from the rootstock
- B. it frees axillary buds from apical dominance
- C. it promotes adventitious root growth
- D. it promotes the growth of apical buds

Answer: B



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10. Name of a gaseous plant hormone is

A. IAA

B. gibberellin

C. ethylene

D. abscisic acid

Answer: C



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11. The maximum growth rate occurs in

A. stationary phase

B. senescent phase

C. lag phase

D. exponential phase

Answer: D



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12. Growth promoting hormone is

A. gibbberellins

B. ABA

C. auxins

D. both a and c

Answer: D



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13. The discovery of gibberellins is related with one of the following

A. blast disease of rice

B. foolish seeding disease

C. bakane disease of rice

D. early blight disease of potato

Answer: C



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14. Which of the following movements in plants is due to the increased concentration of auxin?

A. Movement of shoot towards the source of light

B. Nyctinasty

C. Movement of sunflower towards sun

D. root differentiation

Answer: A



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15. The problem of necrosis and gradual senescence, while performing tissue culture can be overcome by

- A. Spraying auxins
- B. spraying cytokinins
- C. suspension culture
- D. subculture

Answer: B



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16. The following statements are given about plant growth hormones

I. Cytokinins especially help in delaying senescence

II. Auxins are involved in regulating apical dominance

III. Ethylene is especially useful in enhancing seed germination

IV. Gibberellins are responsible for immature falling of leaves.

Which the above statements are correct?

A. I and II only

B. I and III only

C. II and III only

D. II, III, and IV only

Answer: A



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17. Which plant hormone promotes seed dormancy, bud dormancy and causes stomatal closure?

A. auxin

B. Absciscic acid

C. GA

D. $CH_2 = CH_2$

Answer: B



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18. Absciscic acid is primarily synthesized in

A. lisosomes

B. Golgi complex

C. chloroplast

D. ribosomes

Answer: C



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19. Auxin in plant means for

A. cell elongation

B. fruit ripening

C. cell division

D. cell differentiation

Answer: C



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20. The hormone present in the liquid endosperm of coconut is

A. cytokinin

B. gibberellin

C. ethylene

D. auxin

Answer: A



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