



BIOLOGY

NEET & AIIMS

MOCK TEST 25

Example

1. Choose incorrect option w.r.t. Ethephon.

A. It is an aqueous solution

B. It is used as source of ethylene

C. It is used to hasten fruit ripening in
tomatoes and apples

D. It is a natural ripening compound

Answer: D



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2. Choose correct one w.r.t. respiratory climactic.

- A. Sudden sharp rise in rate of respiration
- B. Induced by cytokinins
- C. Occur at the time of flowering
- D. Decrease in rate of respiration in dormant seeds

Answer: A



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3. Phytohormone that helps seeds to withstand desiccation and other unfavourable conditions is

A. Ethylene

B. Auxin

C. Gibberellin

D. ABA

Answer: D



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4. choose correct pairs of PGRs showing antagonistic effects.

(A) ABA and GAs for seed germination

(B) ABA and GAs for stomatal closure

(C) Auxin and cytokinin for apical dominance

A. (A), (C) and (D)

B. (B), (C) and (D)

C. (C) and (D) only

D. (B) and (D) only

Answer: A



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5. Match Column I with column II and choose the correct option

Column I	Column II
a. Ethylene	(i) Promotes synthesis of chloroplast
b. Auxin	(ii) Promotes bolting
c. Cytokinin	(iii) Xylem differentiation
d. Gibberellin	(iv) Horizontal growth of seedlings.

option.

A. a(iv), b(i), c(iii), d(ii)

B. a(ii), b(i), c(iii), d(iv)

C. a(ii), b(i), c(iv), d(iii)

D. a(iv) ,b(iii), c(i), d(ii)

Answer: D



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6. Read the following statements. A. ABA is derived from violaxanthin and is also known as anti GA hormone. B. Ethylene increases the number of male flowers. C. Extrinsic factors like temperature and light control plant growth and development via PGRs. D. GA, is used to

speed up the malting process in brewing industry Choose the correct option.

- A. Only A is incorrect
- B. Only B is incorrect
- C. A, B and C are incorrect
- D. B, C and D are incorrect

Answer: B



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7. Choose the correct option. A. (i) is used to initiate flowering and for synchronising fruit set in pineapples B. (ii) is also known as stress hormone. C. (iii) is used to induce early seed production in conifers and for increasing sugar yield in sugarcane

A. (i) Ethylene, (iii) Auxin

B. (ii) Ethylene, (iii) Cytokinin

C. (ii) ABA, (iii) GA

D. (ii) GA, (iii) ABA

Answer: C



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8. Most intensively studied form of Gibberellic acid is

A. GA_1

B. GA_2

C. GA_3

D. GA_4

Answer: C



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9. Site of synthesis of cytokinin is

A. Region of maturation of root

B. Region of active cell division

C. Region of active photosynthesis

D. Region of fully differentiated cells

Answer: B



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10. Along with auxin, which PGR is used to induce proliferation of cells in callus,

A. GA

B. Cytokinin

C. ABA

D. Florigen

Answer: B



11. Suspension of seed germination due to endogenous factors is

- A. Quiescence
- B. Dormancy
- C. Vivipary
- D. Both (1) & (2)

Answer: B



12. Read the following statements. A. Scarification of seed involves softening and weakening of seed coat. B. Stratification of seed is subjecting the moist seeds to high pressure. Choose correct option

A. Only A is true

B. Only B is true

C. Both A and B are true

D. Neither A nor B are true

Answer: A



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13. During seed germination which of the following part of embryonal axis grows first in hypogeal germination?

A. Epicotyl

B. Hypocotyl

C. Cotyledons

D. Both (1) & (2)

Answer: A



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14. How many of the following shows epigeal seed germination?[Cucurbits, Rice, Mustard, Mango, Castor, Gram, Onion, Beans, Groundnut]

A. Seven

B. Six

C. Eight

D. Five

Answer: D



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15. The stimulus of photoperiodism is perceived by

A. Leaves

B. Shoot apex

C. Lateral meristem

D. Flowers

Answer: A



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16. Movement of leaves in touch me not plant is

A. Thigmotropism

B. Nyctinasty

C. Thigmonasty

D. Seismonasty

Answer: D



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17. Seed i.e. positive photoblastic is

A. Tobacco

B. Onion

C. Lily

D. Phlox

Answer: A



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18. Stimulus of vernalisation is perceived by

- A. Mature stem apex
- B. Embryo of the seed
- C. Leaves
- D. Both (1) and (2)

Answer: D



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19. Choose incorrect statement w.r.t. Rhizophora.

- A. Shows precocious seed germination
- B. Develop respiratory roots
- C. Grow in saline marshy habitat
- D. Show seed dormancy

Answer: D



20. Read the following statements and choose the correct ones. A. Light always inhibits seed germination. B. Optimum temperature for seed germination is 10-15degC. C. Photoperiodism and vernalisation both are main phenomenon involved in flowering. D. Vernalisation can shortens the period between germination and flowering.

A. A and B

B. B and C

C. C and D

D. A and D

Answer: C



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21. Who first discovered the effect of photoperiod on flowering?

A. F. W. Went

B. Kurosawa

C. Yabuta and Cousins

D. Garner and Allard

Answer: D



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22. Choose correct statements writ.
phytochromes. A. They absorbs both far-red
and red lights B. The P_r form is physiologically
active and is present in cytosol C. The P_(fr)

form is physiologically active and is attached to plasma membrane D. For LDP $P_{(fr)}/P_r > 1$

A. A, B and C are correct

B. A, C and D are correct

C. A, B and D are correct

D. B and D are correct

Answer: B



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23. Select correct statement w.r.t. florigen.

- A. It is formed in leaves and shoot apices
- B. When exposed to the inductive photoperiod florigen migrates from leaves to shoot apex
- C. Initial flowering occurs without migration of florigen to the shoot apex
- D. It is not a plant hormone

Answer: B



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24. Choose the correct statement. A. Cotyledons remain inside soil in epigeal type of seed germination. B. Cotyledon comes above the surface in hypogeal type of seed germination. C. Plants growing in saline marshes do not propagate through seeds as surrounding environment do not favours any sort of seed germination.

A. Only B is correct

B. Only C is correct

C. Both B and C are incorrect

D. Both A and B are incorrect

Answer: A



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