



BIOLOGY

BOOKS - DINESH PUBLICATION

ENGLISH

ROOT

Multiple Choice Questions

1. Roots developed from parts of the plant other than radicle are called

A. Epiphyllous

B. Epicaulous

C. Adventitious

D. Fibrous

Answer: C



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2. Roots are feebly developed in

A. Hydrophates

B. Mesophytes

C. Xerophytes

D. Halophytes

Answer: A



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3. Conical fleshy roots occur in

A. Sweet Potato

B. Dahlia

C. Asparagus

D. Carrot

Answer: D



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4. Napiform roots are recorded from

A. Radish

B. Carrot

C. Beet

D. Sweet Poatato

Answer: C



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5. Fusiform roots are found in

A. Solanum tuberosum

B. Colocaisa

C. Daucos carota

D. Raphanus sativus.

Answer: D



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6. Primary roots and its branches constitute

A. Adventitious root system

B. Tap root system

C. Fibrous roots

D. Seminal roots.

Answer: B



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7. Nodulated roots occur in

A. Pea

B. Wheat

C. Mustard

D. Rice

Answer: A



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8. Root cap takes part in

- A. Formation of new cells
- B. Absorption of water and minerals
- C. Protection of root meristem
- D. Storage of food.

Answer: C



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9. The fleshy root of Sweet Potato is

A. Conical

B. Tuberous

C. Nodules

D. Fusiform.

Answer: B



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10. Root pocket occurs in

A. Maize

B. Pandanus

C. Banyan

D. Water Hyacinth.

Answer: D



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11. Roots do not occur in

A. Wolffia

B. Ceratophyllum

C. Utricularia

D. All the above.

Answer: D



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12. Red Root is

A. Beet Root

B. Sugarcane

C. Potato

D. Sweet Poatato

Answer: A



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13. Which one of the following roots stores food

A. Fibrous roots of Wheat

B. Stilt roots of Sugarcane

C. Tap root of *Solanum nigrum*

D. Fasciculated roots of Dahlia.

Answer: D



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14. Penumatophores possess

A. Stomata

B. Water pores

C. Lenticels

D. Root hairs.

Answer: C



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15. In Mirabilis the roots are

A. Tuberous

B. Conical

C. Epiphytic

D. Nodulose.

Answer: A



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16. Stilt roots grow from

A. Lower internodes

B. Lower nodes

C. Upper nodes

D. Upper internodes.

Answer: B



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17. Climbing roots are found in

A. Banyan

B. Pondanus

C. Piper

D. Sugracane.

Answer: C



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18. Stilt roots are reported from

A. Pandanus

B. Radish

C. Mango Ginger

D. Bryophyllum.

Answer: A



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19. In *Trapa* some of the roots are

A. Aerial

B. Assimilatory

C. Respiratory

D. Floating

Answer: B



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20. Nodulose roots are recorded from

A. Mirabilis

B. Vanda

C. Momordica

D. Mango Ginger.

Answer: D



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21. Phtosynthetic roots are reported from

A. Jussiaea

B. Rhizophora

C. Bryophyllum

D. Tinospora.

Answer: D



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22. Adventitious roots are adventitious in their

A. Function

B. Position

C. Place of origin

D. Internal structure

Answer: C



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23. In Dahlia the roots are

A. Fibrous

B. Stilt

C. Moniliform

D. Fasciculated tuberous.

Answer: D



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24. Epiphytic roots occur in

A. Tinospora

B. Taeniophyllum

C. Orchids

D. Betel.

Answer: C



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25. Betel has

A. Respiratory roots

B. Clinging roots

C. Fleshy roots

D. Photosynthetic roots

Answer: B



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26. Epiphytic roots possess

A. Velamen

B. Root cap

C. Root hair

D. All the above.

Answer: A



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27. Nudulated roots make the plant rich in

A. Food

B. Proteins

C. Carbohydrates

D. Fats.

Answer: B



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28. Relation between bacteria and legume having nodulated roots is that of

A. Host-parasitism

B. Commensalism

C. Symbiosis

D. Epiphytism

Answer: C



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29. Buttress roots are

A. Aerial

B. Underground

C. Aquatic

D. Horizontal.

Answer: D



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30. Reproductive tap roots occur in

A. Dalbergia

B. Peepal

C. Acacia

D. Banyan.

Answer: A



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31. Thick unbranched roots found in corms and rhizomes of some plants are

A. Reproductive

B. Contractile

C. Root thorns

D. Stilt roots.

Answer: B



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32. Brownish branches coming down from crown of Banyan tree and reaching the soil are

A. Prop roots

B. Stilt roots

C. Additional trunks

D. Pillar branches.

Answer: A



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33. Haustoria help in survival of

A. Epiphytic roots

B. Hygroscopic roots

C. Peproductive roots

D. Parasitic roots

Answer: D



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34. Main root of tap root system represents

A. Plumule axis of the seed

B. Embryo axis of the seed

C. Radicle axis of the seed

D. Hypocotyl part of the seed

Answer: C



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35. Origin of lateral roots is

A. Endogenous

B. Axillary

C. Exogenous

D. Peripheral

Answer: A



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36. A nitrogen fixing bacteria is :

A. Napiform

B. Nodulose

C. Nodulated

D. Moniliform

Answer: C



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37. The roots which arise from the leaf are

- A. Epiphyllous roots
- B. Epiphytic roots
- C. Photosynthetic roots
- D. Velamen roots.

Answer: A



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38. Growth of tap root is

- A. Towards gravity
- B. Towards light
- C. Away from gravity
- D. Away from air

Answer: A



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39. Root does not show

- A. Distinction of primary and secondary roots
- B. Distinction of nodes and internodes
- C. Tertiary roots and rootlets
- D. Endogenous branches.

Answer: B



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40. Multiple root cap occurs in

A. Maize

B. Pandanus

C. Vanda

D. Piper betle

Answer: B



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41. In Asparagus, the roots are

A. Fasciculated

B. Conical

C. Napiform

D. Nodulated.

Answer: A



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42. Match the items in Column-I with Column-II and choose the correct alternative

Column-I	Column-II
a. Fasciculated storage roots	1. Tinospora
b. Pneumatophores	2. Heritiera
c. Haustoria	3. Asparagus
d. Stilt-roots	4. Viscum
e. Assimilatory roots	5. Screwpine

A. a-3, b-2, c-4, d-5, e-1

B. a-3, b-4, c-5, d-2, e-1

C. a-4, b-2, c-3, d-5, e-1

D. a-2, b-4, c-5, d-1, e-3

Answer: A



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43. Root modification is

- (a) Permanent internal changes in roots
- (b) Temporary internal changes in roots
- (c) Permanent structural changes in roots
- (d) Temporary structural changes in roots

A. Permanent internet changes in roots

B. Temporary internal changes in roots

C. Permanent structural changes in roots

D. Temporary structural changes in roots.

Answer: C



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44. Asafoetida is obtained from Ferula
asafoetida from

A. Stem

B. Root

C. Leaf

D. Flower.

Answer: B



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45. Velamen occurs in

A. Epiphytes

B. Mesophytes

C. Hydrophytes

D. Xerophytes.

Answer: A



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46. Negatively geotropic roots are found in

A. 1,2,3 correct

B. 1,2 correct

C. 2,4 correct

D. 1,3 correct

Answer: B



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47. A fibrous roots system is efficient in

(a) Food Storage

(b) Nitrogen fixation

(c) Good anchorage

(d) Absorption for deep soil layers

A. Food Storage

B. Nitrogen fixation

C. Good anchorage

D. Absorption for deep soil layers.

Answer: C



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48. If a primary root continues to grow. the type of root system will be known as :

A. Tap

B. Stilt

C. Secondary

D. Fibrous.

Answer: A



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49. Pneumatophores are found in

A. Mesophytes

B. Sciophytes

C. Stilt roots

D. Halophytes.

Answer: C



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50. Rhizophora possesses

A. Pneumatophores

B. Prop roots

C. Stilt roots

D. Modified roots

Answer: B



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51. Tall trees of what range of height have strong buttresses at their base

(a) 15 m and above

(b) 5-7 m

(c) 3-5 m

(d) 7-10 m

A. 15 m and above

B. 5-7 m

C. 3-5 m

D. 7-10 m

Answer: A



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52. Root cap is absent in

A. Xerophytes

B. Mesophytes

C. Epiphytes

D. Hydrophytes.

Answer: D



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53. Which is incorrect match ?

(a) Tap root-Carrot

(b) Prop root-Banyan tree

(c) Adventitious root-Sweet potato

(d) Stilt root-Turnip

A. Tap root-Carrot

B. Prop root-Banyan tree

C. Adventitious root-Sweet potato

D. Stilt root-Turnip.

Answer: D



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54. The stems of maize and sugarcane have supporting roots coming out of the lower nodes of the stem. These are called

A. Stilt roots

B. Prop roots

C. Pneumatophores

D. Adventitious roots.

Answer: A



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55. Select the correct statements.

(A) From the region of elongation ,some of the epidermal cells form root hairs .

(B) Pneumatophores are seen in Rhizophora.

(C) Adventitious roots are seen in the banyan tree .

(D) Maize and sugarcane have Prop roots.

A. a and b

B. a,c and d

C. a and d

D. b and c

Answer: D



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56. In *Sonneratia* many roots come out of the substratum and grow vertically upwards. They are

(a) Pneumatophores

(b) Prop roots

(c) Stilt roots

(d) None of the above

A. Pneumatophores

B. Prop roots

C. Stilt roots

D. None of the above

Answer: A



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57. The root cap is not used in absorption of water due to

- (a) Presence of roots hairs
- (b) Absence of root hairs
- (c) Its presence in elongation zone
- (d) None of the above

- A. Presence of roots hairs
- B. Absence of root hairs
- C. Its presence in elongation zone
- D. None of the above

Answer: B



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58. Sweet potato is homologous to

- A. Colocasia

B. Potato

C. Turnip

D. Ginger

Answer: C



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59. A root swollen in the form of closely arranged rings is called

(a) Annulated

(b) Moniliform

(c) Fasciculated

(d) Beaded

A. Annulated

B. Moniliform

C. Fasciculated

D. Beaded

Answer: A



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60. Stilt roots occurs in

A. Banyan

B. Screw pine

C. Mango

D. Spinash

Answer: B



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61. Which roots amongs the folloiwng grow against gravitational force

A. Prop roots

B. Stilt roots

C. Buttress roots

D. Pneumotaphores

Answer: D



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62. Which one is correctly matched

A. Dahlia-Fasciculated root

B. Monstera-Fibrous roots.

C. Basil -Prop root

D. Azadirachta-Adventitious roots.

Answer: A



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63. Consider the following statements regarding the root system of angiosperms

I. In monocots, the Fibrous root system arises from base of stem. II Region of elongation is called root hair zone . III In sweet potato, adventitious roots get swollen and store food IV. Stem of Maize and Sugaracane have supporting roots called prop roots

A. I and II correct, III and IV wrong

B. II and III correct, I and IV wrong

C. II and IV correct, I and III wrong

D. I and III correct, II and IV wrong

Answer: D



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64. In one plant, adventitious roots are modified for storage and in the other plant a lateral branches with short internodes and each node bearing a rosette of leaves and tuft of roots. They are

(a) Sweet Potato and Pistia

(b) Eichhornia and Jasmine

(c) Carrot and Mint

(d) Turnip and Chrysanthemum

A. Sweet Potato and Pistia

B. Eichhornia and Jasmine

C. Carrot and Mint

D. Turnip and Chrysanthemum

Answer: A



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65. This has tuberous roots

(a) Turnip

(b) Beet

(c) Carrot

(d) Mirabilis

A. Turnip

B. Beet

C. Carrot

D. Mirabilis

Answer: D



66. The modified supporting roots called prop roots and stilt roots are seen respectively in (i) Banyan and Maize (ii) Banyan and Sugarcane (iii) Maize and Banyan (iv) Sugarcane and Maize

(a) i only

(b) ii only

(c) iii only

(d) i and ii only

A. i only

B. ii only

C. iii only

D. i and ii only

Answer: D



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67. Root hairs develop from the region of

A. Maturation

B. Elongation

C. Root cap

D. Meristematic activity,

Answer: A



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Revision Questions From Competitive Exams

1. Which of the following is not a stem modification ?

A. Ginger

B. Mango Ginger

C. Potato

D. Garlic

Answer: B



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2. Parasite plants obtain nourishment through

A. Haustoria

B. Clinging roots

C. Fibrous roots

D. Velamen roots.

Answer: A



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3. Radish and carrot are

A. Napiform root

B. Concial root

C. Fusiform root

D. Tuberous root.

Answer: C



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4. In Rhizophora, roots are modified to form

A. Fasciculated roots

B. Tap roots

C. Adventitious roots

D. Secondary roots

Answer: C



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5. In Ipomoea batatas/Sweet potato the food is stored in

A. Root tuber

B. Stem tuber

C. Bud

D. Leaves

Answer: A



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6. Pneumatophores are useful in

A. Respiration

B. Transpiration

C. Guttation

D. Protein synthesis.

Answer: A



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7. Pneumatophores or breathing roots occurs in/ Respiratory roots and vivipary reproduction are the characteristic of

A. Hydrophates

B. Epiphytes

C. Xerophytes

D. Mangrove plants.

Answer: D



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8. Velamen and spongy tissue are found in

A. Parasites

B. All epiphytes

C. Aerial roots of some orchids/Vanda

D. Halophytes

Answer: C



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9. Haustoria or sucking roots occur in

A. Betel

B. Orchids

C. Cuscuta

D. Tinospora

Answer: C



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10. Velamen is present in

A. Tuberos roots

B. Epiphytic roots

C. Breathing roots

D. Parasitic roots

Answer: B



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11. Root hair develop from the region of

A. Region of maturation

B. Zone of elongation

C. Meristematic region

D. Region of mature cells.

Answer: A



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12. Maximum growth of root occurs

A. At the tip

B. Behind the tip

C. Root hair zone

D. In light

Answer: B



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13. In roots, lateral branches grow from

- A. Cortex
- B. Epidermis
- C. Endodermis
- D. Pericycle

Answer: D



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14. Velamen takes part in

A. Absorption of moisture from air

B. Absorption of water from soil

C. Exchanges of gases

D. Transpiration

Answer: A



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15. The lateral roots develop from primordia originated by the division of primary

A. Pericycle cells in between two protoxylem

points

B. Pericycle cells opposite protoxylem points

C. Endodermis cells in between two

protoxylem points

D. Endodermis opposite protoxylem points

Answer: A



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16. Economically important edible part of *Ipomoea batatas* is

A. Rhizome

B. Stem tuber

C. Underground fruit

D. Underground root tuber

Answer: D



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17. Roots that hold horizontal branches of Banyan tree in the air are

A. Thumb roots

B. Prop roots

C. Stilt roots

D. All the above.

Answer: B



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18. Stilt roots occur

A. Groundnut/Helianthus

B. Rice

C. Sugarcane /Maize

D. Wheat

Answer: C



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19. Which is not a product of root

A. Sugarbeet

B. Carrot

C. Radish

D. Potato

Answer: D



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20. A fibrous root system is better adapted than tap root system for

- A. Storage of food
- B. Anchorage of plant to soil
- C. Absorption of water and minerals
- D. Transport of water and organic food.

Answer: C



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21. Root cap is absent in

A. Hydrophytes

B. Lithophytes

C. Xerophytes

D. Mesophytes

Answer: A



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22. Nodulated roots occur in

A. Leguminosae

B. Solanaceae

C. Malvaceae

D. Papilionatae.

Answer: A



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23. Aerial absorptive roots occur in

A. Epiphytes

B. Mesophytes

C. Hydrophytes

D. Xerophytes.

Answer: A



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24. Massive aerial roots present in a Banyan tree are

A. Stilt roots

B. Prop roots

C. Penumatophores

D. Buttress roots

Answer: B



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25. Climbing roots occure in

A. Vanilla

B. Vanda

C. Pongamia

D. Taeniophyllum.

Answer: A



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26. Velamen containing structures of epiphyte

Vanda are

A. Stems

B. Absorbing roots

C. Hanging roots

D. Clinging roots.

Answer: C



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27. Pandanus possesses

A. Stilt roots

B. Prop roots

C. Climbing roots

D. Tuberous root.

Answer: A



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28. Which of the following statements about the nitrogen cycle are false ?

1. Rhizobium and Frankia cause nitrogen fixation in their independent free - living stage

.

2. Azotobacter and Anabaena are anaerobic,

symbiotic , free - living , nitrogen fixers.

3. Rhodospirillum is an aerobic , nitrogen - fixing microbe found in the root nodules of legumes .

4. Nitrobacter oxidizes nitrites to nitrates .

A. Nitrobacter

B. Nitrosomonas

C. Rhizobium

D. Azotobacter

Answer: C



29. Root system grows from

- A. Embryo of seed
- B. Radicle of embryo
- C. Plumule of embryo
- D. Coleoptile.

Answer: B



30. Clinging roots occur in

A. Trapa

B. Orchid

C. Screw pine

D. Podostemon.

Answer: B



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31. Penetrating roots of Cuscuta are

A. Haustoria

B. Stilt roots

C. Climbing roots

D. Assimilatory roots

Answer: A



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32. Penumatophores occur in plants of

A. Sandy soil

B. Saline marshy soil

C. Marshy soil

D. Water

Answer: B



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33. A plant with photosynthetic roots is

A. Trapa

B. Dahlia

C. Momordica

D. Micabilis

Answer: A



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34. Storage roots found in clusters at base of stem are

- A. Nodulose roots
- B. Annulated roots
- C. Tuberous roots
- D. Fasciculated roots

Answer: D



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35. Pneumatophores are characteristic feature of

A. Hydrilla

B. Typha

C. Rhizophora/Sonneratia

D. Banyan.

Answer: C



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36. A fleshy root tapering at both ends is

A. Fusiform

B. Conical

C. Napiform

D. Tuberous

Answer: A



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37. Region of root from base tip in a tap root are

A. Maturation zone -Cell division zone

Elongation zone

B. Maturation zone -Elongation zone- Cell

division zone

C. Cell division zone- Elongation zone -

Maturation zone

D. Elongation zone -Elogation zone-

Maturation zone.

Answer: B



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38. A plant with epidermis specialised to absorb moisture from air is

A. Avicennia

B. Vanda

C. Rhizophora

D. Jussiaea.

Answer: B



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39. Hygroscopic roots occur in

A. Vanda

B. Rhizophora

C. Bryophyllum

D. All the above.

Answer: A



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40. A root is adventitious when it is

A. Swollen

B. Growing in marshy places

C. Formed from parts other than radicle

D. Modified for storage.

Answer: C



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41. Root nodules are not formed in non-leguminous plants because they grow in

A. Nitrogen deficient soils

B. Soils having bacteria for converting nitrogen into usable form

C. Soils rich in nitrogen

D. All the above.

Answer: B



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42. Which one of the following plants are used as green manure in crop fields and in sandy soils

A. *Crotalaria juncea* and *Alhagi comelorum*

B. *Colotropis procera* and *Phyllanthus niruri*

C. Saccharum munja and Lantana camara

D. Dichanthium annulatum and Azolla
nilotica.

Answer: A



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43. Asafoetida is

(a) Alkaloid

(b) Oil

(c) Resin

(d) Tannin

A. Alkaloid

B. Oil

C. Resin

D. Tannin.

Answer: C



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44. Roots developed from parts of the plant other than radicle are called

A. Stilt roots

B. Adventitious roots

C. Tap roots

D. Fibrous roots.

Answer: B



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45. Root cap does not occur in

(a) Ipomoea

(b) Mangrove plants

(c) Pandanus

(d) Pistia

A. Ipomoea

B. Mangrove plants

C. Pandanus

D. Pistia.

Answer: B





46. What is the arrangement of root zones starting from root tip

A. Root cap , cell division, cell enlargement and cell maturation

B. Root cap, cell division, cell maturation and cell enlargement

C. Cell division , cell maturation, cell enlargement and root cap

D. Cell division, cell enlargement, cell maturation and root cap.

Answer: A



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47. Which is correct regarding the roots in the corresponding plants ?

A. Orchid has palmate roots

B. Sweet Potato has root tubers

C. Pandanus has stilt roots

D. All the above.

Answer: D



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48. In hydrophytes

- (a) Root system is well developed
- (b) Vascular system is poorly developed
- (c) Root system is poorly developed
- (d) Vascular system is poorly developed.

- A. Root system is well developed
- B. Vascular system is poorly developed
- C. Root system is poorly developed
- D. Vascular system is poorly developed.

Answer: C



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49. Outer covering of epiphytic root is

- (a) Osmophore
- (b) Rhizophore

(c) pneumatophore

(d) Velamen

A. Osmophore

B. Rhizophore

C. pneumatophore

D. Velamen

Answer: D



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50. Identify the correct order

1. Mineral absorption zone. 2. Meristematic zone. 3. Maturation zone. 4. Water absorption zone.

A. 2,1,4,3

B. 4,3,2,1

C. 2,4,1,3

D. 1,2,3,4

Answer: A



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51. Which of the following has succulent root ?

A. Opuntia

B. Agave

C. Aloe vera

D. Asparagus.

Answer: D



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52. Pneumatophores are found

- A. In deserts
- B. marshy lands
- C. On mountains
- D. In grasslands

Answer: B



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Assertion

1. Assertion . In cymose tap root systemm the oldest branch lies very close to growing point of root while the youngest branch is farthest away from it

Reason . In cymose tap root system, the primary roots itself stops growing after some time, but secondary roots carry on further growth of the system

A. If both are true with reason being correct explanation

B. both true but reason is not correct
explanation

C. assertion true but reason is wrong

D. both are wrong

Answer: A



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2. Assertion . A mangrove tree growing in
marshy place has pneumatophores

Reason . Pneumatophores help in better anchorage in marshy soil.

A. If both are true with reason being correct explanation

B. both are true and reason is not correct explanation

C. assertion is true but reason is wrong

D. and both are wrong

Answer: C



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Check Your Grasp

1. Climbing roots occur in

A. Vanda

B. Rhizophora

C. Banyan

D. None of the above

Answer:



2. Climbing /clinging roots develop from internode in

(a) Betel

(b) Tecoma

(c) Pothos

(d) Ivy

A. Betel

B. Tecoma

C. Pothos

D. Ivy

Answer: C



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3. Peculiarity of Dalbergia tap root system is

- (a) Surface feeder
- (b) Presence of nodules
- (c) Formation for buds
- (d) Lenticels for aeration

A. Surface feeder

B. Presence of nodules

C. Formation for buds

D. Lenticels for aeration.

Answer: A



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4. Root hair develop from the region of

A. Zone of cell maturation

B. Zone of cell elongation

C. Zone of mature cells

D. Zone of cell formation

Answer:



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5. In pteridophytes, main plant body is (i) , which is (ii) into true roots, stem and leaves fill the blanks in above statements and select the correct option

A. Arceuthobium

B. Podostemon

C. Sapria

D. All the above

Answer:



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6. Radish has

(a) Stem and epicotyl

(b) Primary root and hypocotyl

(c) Primary root and epicotyl

(d) Secondary not and primary root.

A. Stem and epicotyl

B. Primary root and hypocotyl

C. Primary root and epicotyl

D. Secondary not and primary root.

Answer:



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7. In Orchids, the adventitious roots are

A. Photosynthetic

B. Parasitic

C. Epiphytic

D. Both B and C

Answer:



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8. What is the characteristic of haustorial root of *Cuscuta* ?

(a) Presence of both xylem and phloem

(b) Presence of only xylem

(c) Presence of phloem

(d) Absence of both xylem and phloem.

A. Presence of both xylem and phloem

B. Presence of only xylem

C. Presence of phloem

D. Absence of both xylem and phloem.

Answer: A



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9. In *Tinospora*, the adventitious roots are

(a) Hanging

(b) Green

(c) Both a and b

(d) Clinging in nature

A. Hanging

B. Green

C. Both A and B

D. Clinging in nature.

Answer: C



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10. In fern *Salvinia*, the adventitious roots are

A. Storage in function

B. Spongy due to aerenchyma

C. Green and photosynthetic

D. Modificiation of leaf.

Answer: C



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