



BIOLOGY

BOOKS - S DINESH & CO BIOLOGY (HINGLISH)

STEM

Multiple Choice Questions

1. Buds which give rise to leafy shoots are

A. Adventitious buds

B. Vegetative buds

C. Reproductive buds

D. Radical buds

Answer: B



- 2. Buds occuring on the nodes outside the leaf bases are
 - A. Axillary
 - B. Extra-axillary
 - C. Terminal
 - D. Cauline

Answer: B

- 3. Axillary buds develop
 - A. Endogenously from plerome
 - B. Endogenously from pericycle
 - C. Exogenously from outer cortex

D. Exogenously from epidermis

Answer: C



- 4. Epiphyllous buds take part in
 - A. Growth in length
 - **B.** Photosynthesis
 - C. Reproduction
 - D. Reduction in transpiration

Answer: C



5. Heads of Lettuce aren

- A. Undeveloped inflorescence
- B. Unopened flowers
- C. Buds
- D. Modified stems

Answer: C

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6. Brussel's Sproute are

A. Undeveloped inflorescence

B. Floral buds

C. Vegetative buds

D. Fruits

Answer: C



7. Bulbilss occur in

A. Oxalis

B. Agave

C. Lily

D. All the above

Answer: D

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8. Buds that produce latetal branches develop at

A. Internodes

B. Apical meristems

C. Auxillary meristems

D. Nodes

Answer: D



9. Buds typically occur at

A. Leaf bases

B. Leaf axils

C. Tips of stems and roots

D. Tips of branches and leaf bases

Answer: D



10. Monopodial stem is produced due to the activity of

A. Accessory bud

B. Lateral bud

C. Apical bud

D. Adventitious bud

Answer: C

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11. Stem is reduced in

A. Rhizome

B. Corm

C. Bulb

D. Tuber

Answer: C

12. Reduced stem bears leaves called

A. Ramal

B. Radical

C. Cauline

D. Phyllodes

Answer: B

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13. A weak stem which itself coils around the support is called

A. Twiner

B. Scrambler

C. Liana

D. None of the above

Answer: A



14. One internode long runner stem of aquatic plants is called

A. Stolon

B. Trailer

C. Offset

D. None of the above

Answer: C



15. A trailer is that which is rooted at

A. Only one point

B. Two points

C. More than two points

D. No points

Answer: A

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16. The bulb of Garlic is

A. Non-tunicated

B. Tunicated layered

C. Compound tunicated

D. Simple tunicated

Answer: C

17. The sensitive thread-like structures found in climbers which can coil

around a support are

A. Twiners

B. Tendrils

C. Trailers

D. Scarmblers

Answer: B

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18. In Luffa the tendrils are modified

A. Extra-axillary braches

B. Stipules

C. Axillary branches

D. Petioles

Answer: A



19. The weak stemmed plants which can climb with the help of thorns, spines, prickles are

A. Scramblers

B. Stolons

C. Straggling

D. Lianas

Answer: A

20. In Opuntia, each areole represents

A. A node

B. An internode

C. An apical bud

D. An accessory bud

Answer: A

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21. Culm is found in

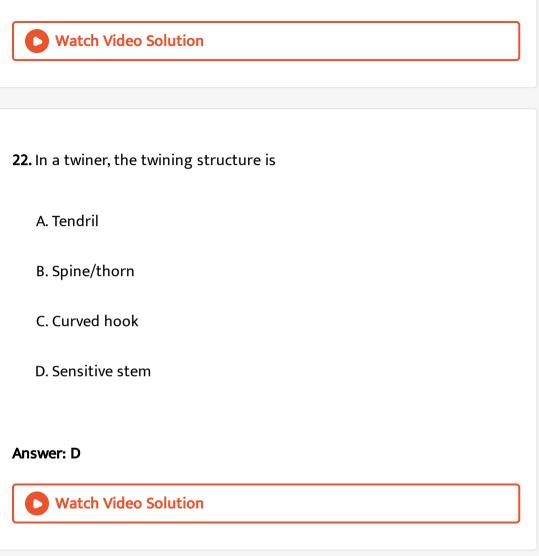
A. Asparagus

B. Bamboo

C. Cucubita

D. Paasiflora

Answer: B



23. Potato tuber is an underground stem because it bears

A. Buds on the nodes

- B. Abundant food reserve
- C. Adventitious roots
- D. No chlorophyll

Answer: A

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24. Underground stems are primarily meant for

- A. Vegetative reproduction
- **B.** Perennation
- C. Protection from strong light
- D. Anaerobic respiration

Answer: B

25. Thorn is a stem structure because it is

A. Axillary

B. Like a branch

C. Hard pointed structure

D. Aerial

Answer: A

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26. Stem is modified into tendril in

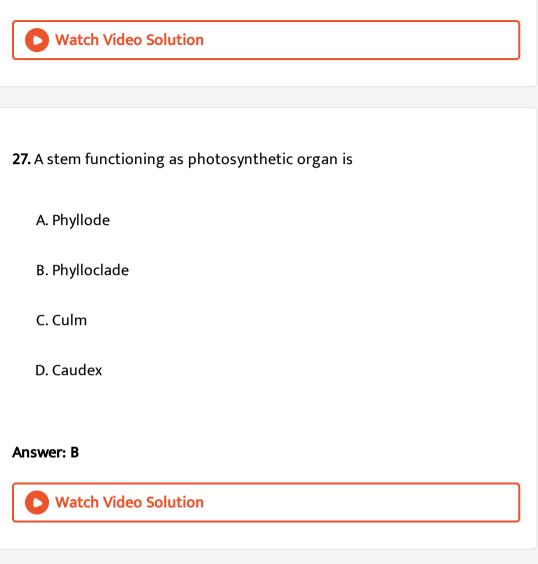
A. Bignonia

B. Asparagus

C. Cucurbita

D. Petunia

Answer: C



28. Offset occurs in

A. Strawberry

B. Colocasia

C. Pistia

D. Chrysanthemum

Answer: C

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29. Sucker is a horizontal stem branch found in

A. Gloriosa

B. Chrysanthemum

C. Grass

D. Strawberry

Answer: B

30. Epiphyllous buds develop from

A. Leaf surface

B. Leaf axil

C. Leaf base

D. Stipule

Answer: A

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31. Stem is specialised to perennate and store food in

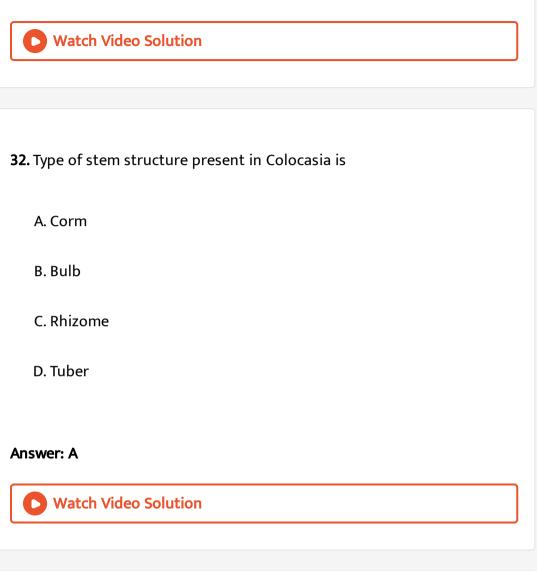
A. Groundnut

B. Ginger

C. Beet

D. Sugarcane

Answer: B



33. Mentha (Mint) has one of the following

A. Sucker

B. Offset

C. Stolon

D. Rhizome

Answer: A

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34. Hooks help in climbing in

A. Quisqualis

B. Artabotrys

C. Pisum sativum

D. Gloriosa

Answer: B

35. Thons, spines and prickles are

A. Organs of defence

B. Organs of offence

C. Organs of clinging

D. Specialised for gaseous exchange

Answer: A

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36. The common mode of vegetative reproduction in Ginger is through

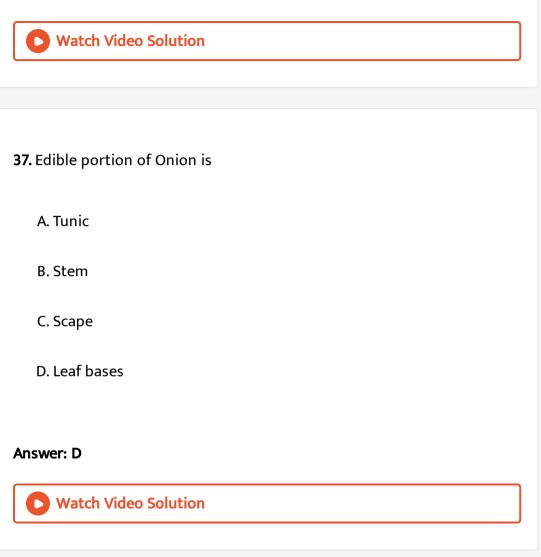
A. Corm

B. Rhizome

C. Bulb

D. Stem cuttings

Answer: B



38. Banana is multiplied through

A. Root cuttings

B. Corm

C. Rhizome

D. Bulb

Answer: C

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39. Potatoes are cultivated by means of

A. Tubers

B. Seeds

C. Axillary buds

D. Root cuttings

Answer: A

40. Primary function of the stem is

A. Anchorage

B. Bearing and holding of leaves

C. Absorbing of water and minerals

D. Vegetative multiplication

Answer: B

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41. The plant stores food in the stem in

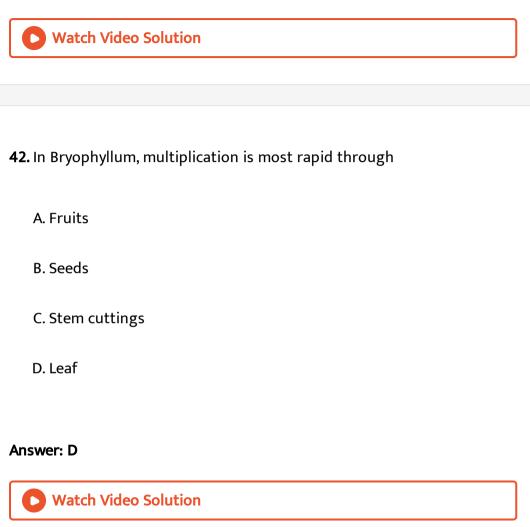
A. Bryophyllum

B. Banana

C. Brinjal

D. Cucurbita

Answer: B



43. Prickles of Rose are

A. Accessory buds

- B. Extra-axillary out growths
- C. Endogenous
- D. Exogenous

Answer: C

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44. Stem is modified into thorns in

A. Citrus

B. Asparagus

C. Opuntia

D. Solanum surattense

Answer: A

45. Corm is

A. Horizontal underground stem

B. Unbranched compressed spherical verical underground stem

C. Horizontal above ground stem

D. Spherical above ground branched stem

Answer: B

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46. Corm is characterised by

A. Adventitious roots

B. Axillary buds

C. Circular nodes

D. Perennial nature

Answer: C



47. What is wrong about rhizome

A. Rhizome stores food

B. It has nodes and internodes

C. It bears foliage or scale leaves

D. It does not possess buds

Answer: D



48. Cladodes occur in

A. Parkinsonic

B. Asparagus

C. Opuntia

D. Euphorbia royleana

Answer: B

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49. Jointed stems with hollows internodes are

A. Culms

B. Caudex

C. Scapes

D. Phyllodes

Answer: A

50. Phylloclads is a modification of

A. Leaf

B. Root

C. Flower

D. Stem

Answer: D

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51. Largest bud is of

A. Cabbage

B. Cauliflower

C. Agave

D. Onion

Answer: A
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52. In Colocasia, vegetative reproduction occurs by means of
A. Rhizome
B. Corm
C. Offset
D. Bulb
Answer: B
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53. In Amorphophallus, vegetative multiplication occurs through

A. Bulbils

B. Rhizome

C. Corm

D. Offset

Answer: C

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54. In Passiflora, the tendrils are modified

A. Axillary buds

B. Upper leaflets

C. Whole leaves

D. Stipules

Answer: A

55. Potato tuber is modified/Edible part of Potato is

A. Stem

B. Bulb

C. Stolon

D. Root

Answer: A

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56. Ginger is a stem which can be differentiated from root because it

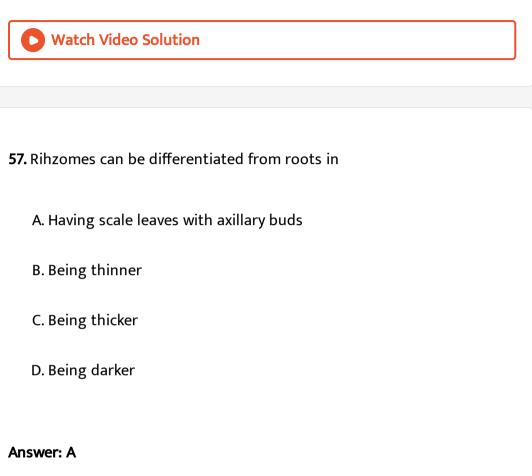
A. Grows parallel to ground

B. Stores food

C. Lacks chlorophyll

D. Has nodes and internodes

Answer: D



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58. Corm is

A. Underground shoot

B. Underground root

C. Horizontal stem

D. Underground verical stem

Answer: D

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59. Potato is multiplied vegetatively with the help of

A. Corm

B. Rhizome

C. Tuber

D. Phyllode

Answer: C

60. Ginger multiplies vegetatively by

A. Bud

B. Stem

C. Tuber

D. Rhizome

Answer: D

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61. Vegetative reproduction occurs by bulbil in

A. Agave

B. Colocasia

C. Zingiber

D. Vallisnersia

Answer: A



62. In hook climber Artabotrys, the hooks are modified

A. Petioles

B. Axillary shoots

C. Leaves

D. Inflorescence axes

Answer: D

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63. New Banana plants develop from

A. Rhizome

B. Sucker

C. Stolon

D. Seed

Answer: B

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64. Vegetative reproduction of Agave occurs through

A. Rhizome

B. Stolon

C. Bulbils

D. Sucker

Answer: C

65. Thorn of Bougainvillea is modified

A. Stem

B. Leaf

C. Floral bud

D. Root

Answer: A

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66. Bulb is modified

A. Leaf

B. Shoot

C. Root

D. Flower

Answer: B

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67. Potato is (underground) stem because it

A. Possesses axillary buds (eyes)

B. Lacks chlorophyll

C. Does not bear roots

D. Contains reserve food

Answer: A



68. Thorm is a stem structure because it

A. Develops from trunk

- B. Develops from axillary bud
- C. Grows from external surface
- D. Is pointed

Answer: B

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69. Citrus thorn/spine is actually modification of

A. Stem

B. Branch

C. Leaf

D. Stipule

Answer: B

70. Most reduced stem occurs in

A. Corm

B. Rhizome

C. Stem tuber

D. Bulb

Answer: D

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71. In Opuntia, the spines are modifications of

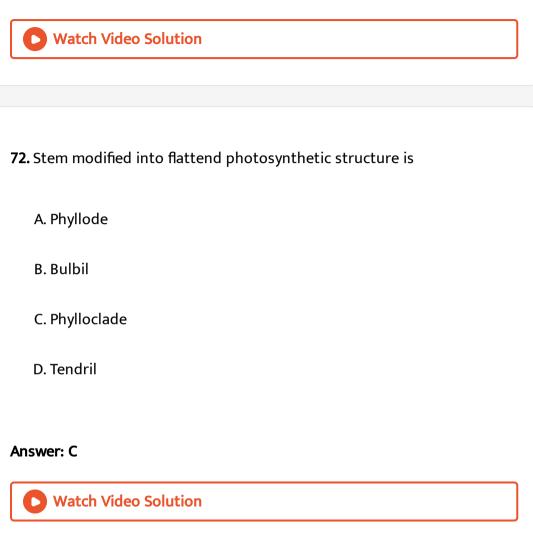
A. Stems

B. Leaves

C. Roots

D. None of the above

Answer: B



73. Floral bud tendril is found in

A. Antigonon

B. Smilax

C. Rose

D. Bryophyllum

Answer: A

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74. Stem takes part in storage and perennation in

A. Wheat

B. Groundnut

C. Radish

D. Ginger

Answer: D

75. In Opuntia, the stem is modified into

A. Cladode

B. Phylloclade

C. Phyllode

D. Staminode

Answer: B

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76. Which is not a rhizome

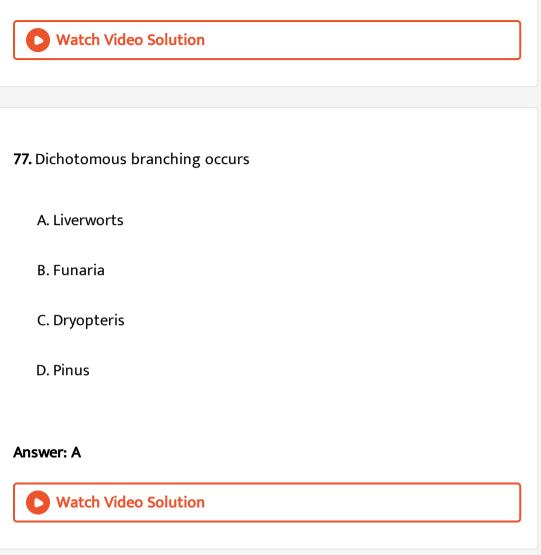
A. Colocasia

B. Lotus

C. Ginger

D. Turmeric

Answer: A



78. Ginger plant has an underground stem which is

A. Rhizome

B. Bulb

C. Tuber

D. Corm

Answer: A

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79. A stem with distinct solid nodes and hollow internodes is

A. Sobole

B. Culm

C. Scape

D. Intercalary stem

Answer: B

80. An underground specialised shoot with reduced disc like stem covered by flashy leaves is

A. Bulb

B. Bulbil

C. Rhizome

D. Rhizophore

Answer: A

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81. Sten tendrils occur in

A. Smilax

B. Gloriosa

C. Vitis

D. Lathyrus

Answer: C



82. Which of the following is not related to corm

A. Tunic

B. Lateral buds

C. Nodes

D. Scale leaves

Answer: A

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83. Eye of Potato is

A. Apical bud

B. Axillary bud

C. Accessory bud

D. Adventitious bud

Answer: B

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84. Phylloclade is found in

A. Chrysanthemum

B. Asparagus

C. Ruscus

D. Opuntia

Answer: D

85. Thorms with leaves and flowers are found in

A. Bougainvillea

B. Carissa

C. Duranta

D. Artabotrys

Answer: C

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86. Thick underground stem growing parallel to soil surface is

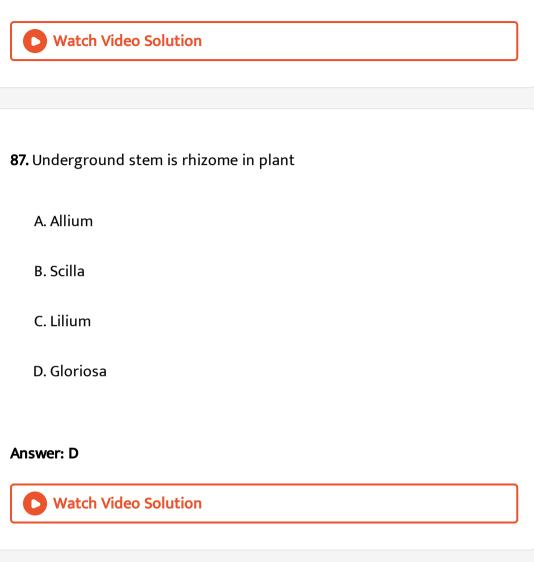
A. Stolon

B. Rhizome

C. Sucker

D. Offset

Answer: B



88. Green leaf-like one internode long stem branches are called

A. Phylloclades

B. Phyllodes

C. Bulbils

D. Cladodes

Answer: D

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89. There is a stem modification in Ruscus. It is

A. Cladode

B. Phylloclade

C. Thorn

D. Corm

Answer: A

90. Edible part of Ginger is

A. Corm

B. Rhizome

C. Bulb

D. Tuber

Answer: B

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91. Modification of stem into leaf like cladodes is found in certain

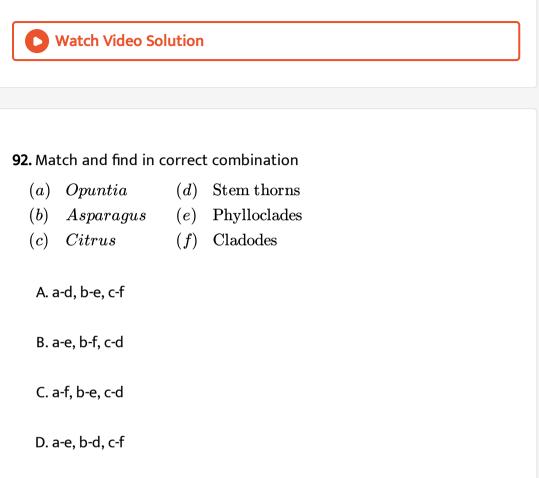
A. Hydrophytes

B. Heliophytes

C. Xerophytes

D. Hygrophytes

Answer: C



Answer: B

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93. Stem modification found in Gladiolus is

A. Corm

B. Bulbil

C. Bulb

D. Rhizome

Answer: A

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94. Phylloclades are

A. Leaf modifications

B. One internode long stems

C. Modified petioles

D. Green succulent stems of indefinite growth

Answer: D

95. Rhizome which grows vertically upwards are

A. Corm

B. Stolon

C. Bulbil

D. Rootstock

Answer: D

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96. Underground stem that has contractile roots

A. Rhizome

B. Corm

C. Stem tuber

D. Bulb

Answer: B



97. Bamboo is

A. Culm

B. Bulb

C. Runner

D. Twiner

Answer: A



98. Turmeric powder is obtained from

A. Curcuma longa

B. Curcuma amada

C. Cucurbita sativa

D. Cassia tora

Answer: A

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99. Corm is modified

A. Root

B. Stem

C. Leaf

D. Bud

Answer: B

100. Which one is found only in aquatic plant

A. Runner

B. Stolon

C. Tuber

D. Offset

Answer: D

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101. Uniparous, biparous and multiparous system of branching are found

respectively in

- A. Mirabilis, Datura and Vine
- B. Saraca, Mirabilis and Euphorbia

C. Vine, Polyalthia and Saraca

D. Casuarina, Saraca and Croton

Answer: B



102. Scaly bulb occurs in

A. Lilium

B. Allium

C. Scilla

D. Ginger

Answer: A



103. Black Pepper is

A. Herb

B. Shrub

C. Tree

D. Climber

Answer: D

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104. Which of the following statements is/are true

(A) It the stem is jointed with solid nodes and hollow internodes, it is

called caudex

- (B) In Tridax the stem is decumbent
- (C) Corn is a condensed form of rhizome growing more or less in vertical

direction

- (D) Sucker is an underground modification of stem
- (E) Biparous type of cymose branching is seem in Saraca.

A. a, d, e

B. b, c, and d only

C. c and d only

D. b, c, e only

Answer: B

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105. Identify plants which show modification of axillary buds into terdrils

and hooks respectively

(a) Hugonia(b) Duranta(c) Passiflora(d) Dioscoea

A. a and b

B. c and a

C. b and c

D. d and a

Answer: B



106. Stem may function for

A. Protection

B. Spread of branches

C. Storage, support and vegetative propagation

D. All the above

Answer: D

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107. Which one is example of subaerial modification of stem

A. Asparagus

B. Polyalthia

C. Tridax

D. Oxalis

Answer: D



108. In Durantak, vasculated defensive structures represent

A. Axillary bud as in Bougainvillea

B. Stipules as in Acacia

C. Terminal bud as in Carissa

D. Apical bud as in Artabotrys

Answer: A



109. Succulent stem is found in

A. Pisum

B. Casuarina

C. Euphorbia

D. Oxalis

Answer: C

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110. The structure which contain vascular bundle and is modification of

stem is

A. Prickle

B. Thorn

C. Bristle

D. All the above

Answer: B



111. Which of thw following plants have long slender and coiled stem tendrils developed from axillary buds

- A. Grape Vine and Pumpkin
- B. Australian Acacia and Water Melon
- C. Bougainvillea and Cucumber
- D. Strawberry and Grape Vine

Answer: A

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112. Match the following and select the correct combination from the option given below

	$\begin{array}{c} Column \ I \\ (\text{Stem Modifications}) \end{array}$		$\operatorname{ColumnII}_{(\mathrm{Found\ in})}$	
Α.	Underground stem	1.	Euphorbia	
В.	Stem tendril	2.	Opuntia	
C.	Stem thorns	3.	Potato	
D.	Flattened stem	4.	Citrus	
Е.	Fleshy cylindrical stem	5.	Cucumber	
A. a-p, b-q, c-r, d-t, e-s				

B. a-q, b-r, c-s, d-t, e-p

C. a-r, b-s, c-t, d-p, e-q

D. a-r, b-t, c-s, d-q, e-p

Answer: D

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113. Which of the following is the subaerial stem modification with long

intermode

A. Rhizome

B. Offset

C. Runner

D. Sucker

Answer: C

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114. In Amorphophallus and Colocasia (Ariods) an extremely enlarged underground vertical stem meant for vegetative reproduction and storage is

Modified stem present in Gladiolus is

A. Rhizome

B. Tuber

C. Bulb

D. Corm

Answer: D





115. There is a stem modification in Ruscus. It is

A. Phylloclade

B. Cladode

C. Phyllode

D. Sucker

Answer: B

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116. The stem of Turmeric is

A. Corm

B. Bulb

C. Rhizome

D. Tuber

Answer: C



117. Which is correctly matched

A. Onion- Bulb

B. Ginger-Sucker

C. Chalamydomonas- Conidia

D. Yeast - Zoospores

Answer: A



118. Which orientation or movement occurs in rhizome and runner

A. Ageotropic

- B. Negatively geotropic
- C. Diageotropic
- D. Phagotropic

Answer: C

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119. Cladod is

- A. One internode long modified stem capable of photosynthesis
- B. A specialised reproductive shoot
- C. Flattened green stem of unlimited growth
- D. A perennial fleshy underground stem

Answer: A

120. The plant of arid regions with flat green stem carrying out photosynthesis is

A. Euphorbia

B. Opuntia

C. Citrus

D. Bougainvillea

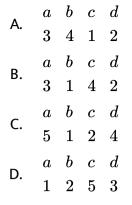
Answer: B

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121. Match the lists

Ι

- (a) Food storing condensed branches develop in the axils of bracts on the
- (b) A group of bulbils arises from ground level at the apex of tuberous roc
- (c) Bulbils develop from axils of leaves
- (d) One or more internodes of stem stores food and water, becomes tuber



Answer: B



122. Match the lists

Ι

- (a) Apices of underground branches store food
- (b) Underground branches grow obliquely upward from the axillary buds
- (c) Aerial branches grow obliquely downwards and produce adventitious
- (d) Weak stemmed plants have a cluster of leaves and roots at every node

D.
$$\begin{array}{cccc} a & b & c & d \\ (iv) & (i) & (v) & (ii) \end{array}$$

Answer: D



123. A cladode is modified

A. Leaf

B. Petiole

C. Stem

D. Root

Answer: C



124. Stem tendrils are seen in

- A. Citrus and Bougainvillea
- B. Citrus and water melon
- C. Cucumber and pumpkin
- D. Opuntia and Bougainvillea

Answer: C

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125. Match the columns and choose the right options

Ι

Π

- (a) Ginger (1) Flattened stems
- (b) Pumpkin (2) Thorns
- (c) Bougainvillea (3) Stem tendrils
- (d) Opuntia (4) Underground stem

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

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

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

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

Answer: A				
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126. An example of edible underground stem is				
A. Groundnut				
B. Sweet Potato				
C. Potato				
D. Carrot				
Answer: C				
Vatch Video Solution				
127. In one plant, underground stems are modified to store food and in				

another plant, the stem tendrils develop from axillary buds to help plant

climb. They are

A. Ginger, Cucumber

B. Carrot, Jasmine

C. Sweet Potato, Bougainvillea

D. Opuntia, Eichhornia

Answer: A

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128. Assertion (A) :. Subaerial modifications pasticipate in vagetative reproduction

Reason (R):. They store food and water

A. A and R are true and R is not correct explanation of A

B. A and R are true but R is not correct explanation of A

C. A is true, R is false

D. A is false, R is true

Answer: C

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129. Ginger is				
A. Stem				
B. Root				
C. Fruit				
D. Bulb				

Answer: A



130. This is not an example of aerial modification of stem

A. Corm

B. Tendril

C. Thorn

D. Phylloclade

Answer: A

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131. RACEMOSE

A. Datura

B. Saraca

C. Casuarina

D. Croton

Answer: C

132. Which of the following is not a stem modification

A. Flattened structures of Opuntia

B. Pitcher of Nepenthes

C. Thorns of Citrus

D. Tendrils of Cucumber

Answer: B

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133. Select the mismatched pair out of the following

A. Rhizome - Dryopteris, Nelumbo nucifera

B. Corm- Crocus sativus, Amorphophallus

C. Sucker - Curcuma domestica, Zingiber officinale

D. Tuber - Helianthus tuberosus, Solanum tuberosum

Answer: C

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134. In Bougainvillea, thorns are the modifications of

A. Stipules

B. Adventitious root

C. Stem

D. Leaf

Answer: C