

### **BIOLOGY**

### **BOOKS - DINESH PUBLICATION ENGLISH**

#### **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

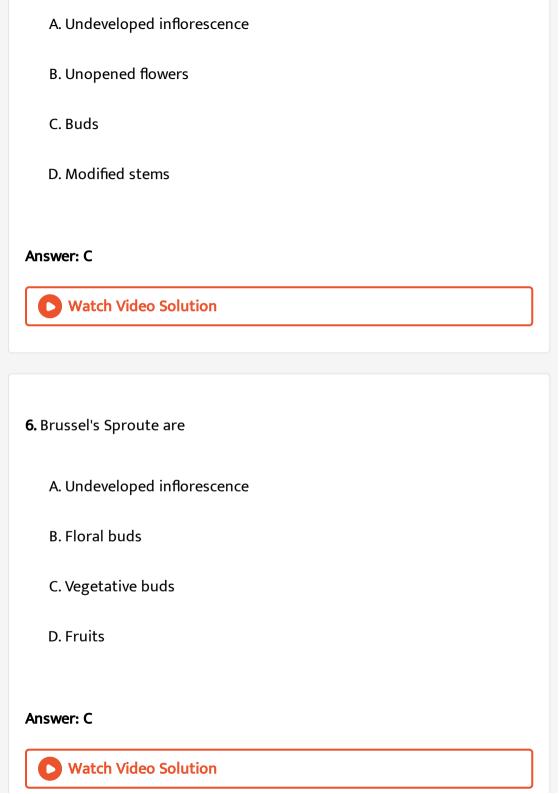
#### **Answer: B**



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watch video Solution
2. Buds occuring on the nodes outside the leaf bases are
A. Axillary
B. Extra-axillary
C. Terminal
D. Cauline
Answer: B
Watch Video Solution
3. Axillary buds develop
A. Endogenously from plerome
, ,
B. Endogenously from pericycle

D. Exogenously from epidermis
Answer: C
Watch Video Solution
<b>4.</b> Epiphyllous buds take part in
A. Growth in length
B. Photosynthesis
C. Reproduction
D. Reduction in transpiration
Answer: C
Watch Video Solution
5. Heads of Lettuce are

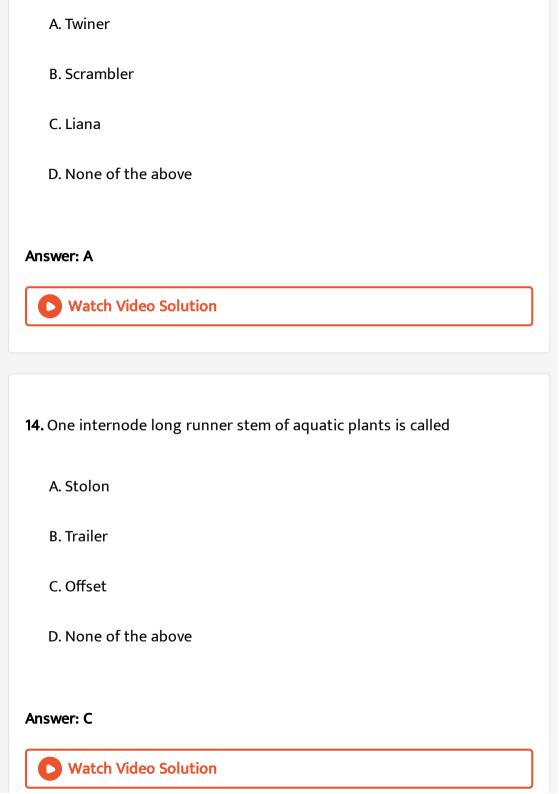


# 7. Bulbilss occur in A. Oxalis B. Agave C. Lily D. All the above **Answer: D Watch Video Solution** 8. Buds that produce latetal branches develop at A. Internodes B. Apical meristems C. Axillary meristems

D. Nodes
Answer: D
Watch Video Solution
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
Watch Video Solution
10. Monopodial stem is produced due to the activity of

A. Accessory bud
B. Lateral bud
C. Apical bud
D. Adventitious bud
Answer: C
Watch Video Solution
11. Stem is most reduced in
A. Rhizome
B. Corm
C. Bulb
D. Tuber
Answer: C
Watch Video Solution

12. Reduced stem bears leaves called A. Ramal B. Radical C. Cauline D. Phyllodes **Answer: B Watch Video Solution** 13. A plant has weak stem which can coil around an upright support . It is а (a) Liana (b) Twiner (c) Climber (d) Creeper



<b>15.</b> 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  Watch Video Solution
<b>16.</b> The bulb of Garlic is
A. Non-tunicated
B. Tunicated layered

C. Compound tunicated

D. Simple tunicated
Answer: C
Watch Video Solution
17. A sensitive thread-like structure which can coil around a support is
A. Twiners
B. Tendrils
C. Trailers
D. Scarmblers
Answer: B
Watch Video Solution
<b>18.</b> In Luffa the tendrils are modified

A. Extra-axillary braches **B.** Stipules C. Axillary branches D. Petioles Answer: A **Watch Video Solution** 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



21. Culm is found in

- A. Asparagus
- B. Bamboo
- C. Cucurbita

D. Passinora	
Answer: B	
Watch Video Solution	
22. In a twiner, the twining structure is	
A. Tendril	
B. Spine/thorn	
C. Curved hook	
D. Sensitive stem	

**Answer: D** 

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**23.** Although potato tuber is an underground plant part, it is considered as a stem. Give two reason .

A. Buds on the nodes

B. Abundant food reserve

C. Adventitious roots

D. No chlorophyll

### Answer: A



24. Underground stems are primarily meant for

A. Vegetative reproduction

B. Perennation

C. Protection from strong light

D. Anaerobic respiration

# **Answer: B** Watch Video Solution 25. Thorn is a stem structure because it A. Axillary B. Like a branch C. Hard pointed structure D. Aerial Answer: A Watch Video Solution 26. Stem is modified into tendril in A. Bignonia

C. Cucurbita
D. Petunia
Answer: C
Watch Video Solution
27. A stem functioning as photosynthetic organ is
A. Phyllode
B. Phylloclade
C. Culm
D. Caudex
Answer: B
Watch Video Solution

B. Asparagus

<b>28.</b> Give one example each of a plant that reproduces by :
(a) runner
(b) offset
A. Strawberry
B. Colocasia
C. Pistia
D. Chrysanthemum
Answer: C
Answer: C  Watch Video Solution
Watch Video Solution
Watch Video Solution  29. Sucker is a horizontal stem branch found in

D. Strawberry
Answer: B
Watch Video Solution
<b>30.</b> Epiphyllous buds develop from
A. Leaf surface
B. Leaf axil
C. Leaf base
D. Stipule
Answer: A
Watch Video Solution
<b>31.</b> Stem is specialised to perennate and store food in

A. Groundnut
B. Ginger
C. Beet
D. Sugarcane
Answer: B
Watch Video Solution
<b>32.</b> Type of stem structure present in Colocasia is
A. Corm
B. Bulb
C. Rhizome
D. Tuber
Answer: A
Watch Video Solution

<b>33.</b> Go through the following matches
(i) Mint - Sucker
(ii) Lotus - Rhizome
(iii) Zamikand - Rhizome
(iv) Pine apple - Sucker
Which of the these are correct ?
A. Sucker
B. Offset
C. Stolon

#### **Answer: A**

D. Rhizome



Watch Video Solution

A. Quisqualis B. Artabotrys C. Pisum sativum D. Gloriosa **Answer: B Watch Video Solution** 35. Thorns, spines and prickles in plants work as A. Organs of defence B. Organs of offence C. Organs of clinging D. Specialised for gaseous exchange Answer: A **Watch Video Solution** 

<b>36.</b> In ginger , vegetative propagation occurs through :
A. Corm
B. Rhizome
C. Bulb
D. Stem cuttings
Answer: B  Watch Video Solution
<b>37.</b> Edible portion of Onion is
A. Tunic
B. Stem
C. Scape

D. Leaf bases	
Answer: D	
Watch Video Solution	
88. Banana crop is cultivated by farmers without sowing of seeds. Explain now the plant is propagated.	
A. Root cuttings	

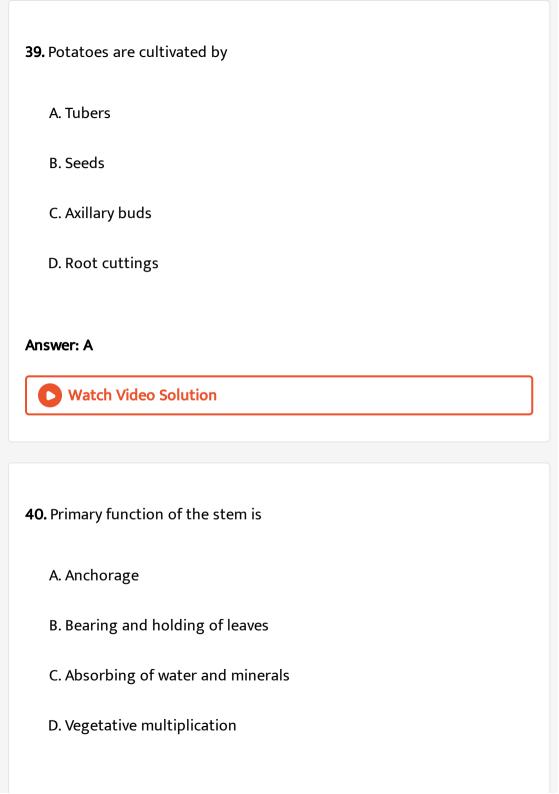
B. Corm

D. Bulb

**Answer: C** 

C. Rhizome

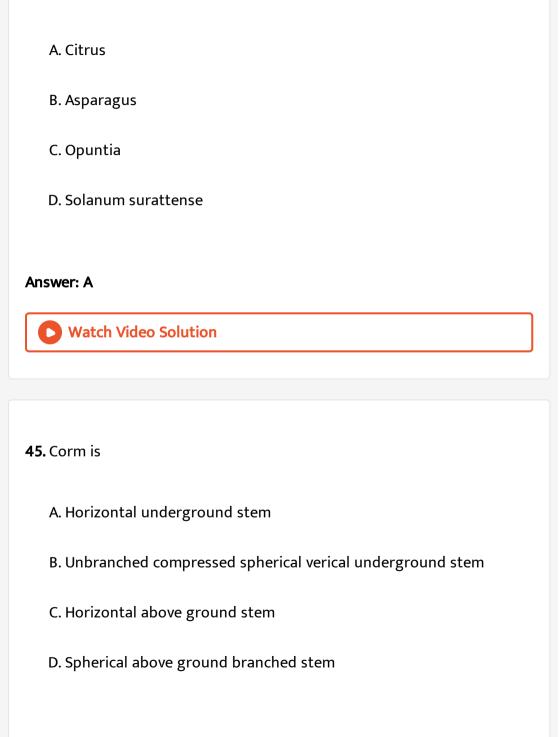
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# **Answer: B** Watch Video Solution 41. The plant stores food in the stem in A. Bryophyllum B. Banana C. Brinjal D. Cucurbita **Answer: B** Watch Video Solution 42. In Bryophyllum, multiplication is most rapid through A. Fruits

C. Stem cuttings D. Leaf **Answer: D Watch Video Solution** 43. Prickles of Rose are A. Accessory buds B. Extra-axillary out growths C. Endogenous D. Exogenous **Answer: C Watch Video Solution** 

B. Seeds



44. Stem is modified into thorns in

# Answer: B **Watch Video Solution** 46. Corm is characterised by A. Adventitious roots B. Axillary buds C. Circular nodes D. Perennial nature **Answer: C** Watch Video Solution 47. What is wrong about rhizome A. Rhizome stores food

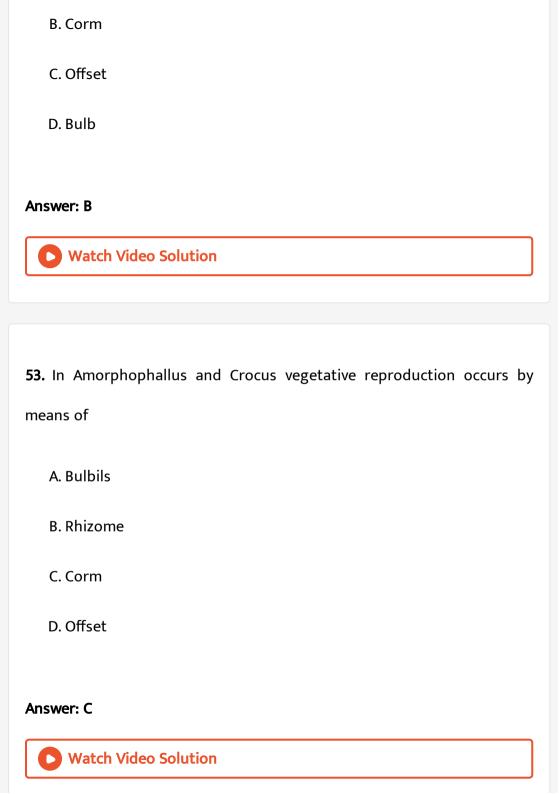
- B. It has nodes and internodes C. It bears foliage or scale leaves D. It does not possess buds **Answer: D Watch Video Solution** 48. Cladodes occur in
- - A. Parkinsonic
  - B. Asparagus
  - C. Opuntia
  - D. Euphorbia royleana

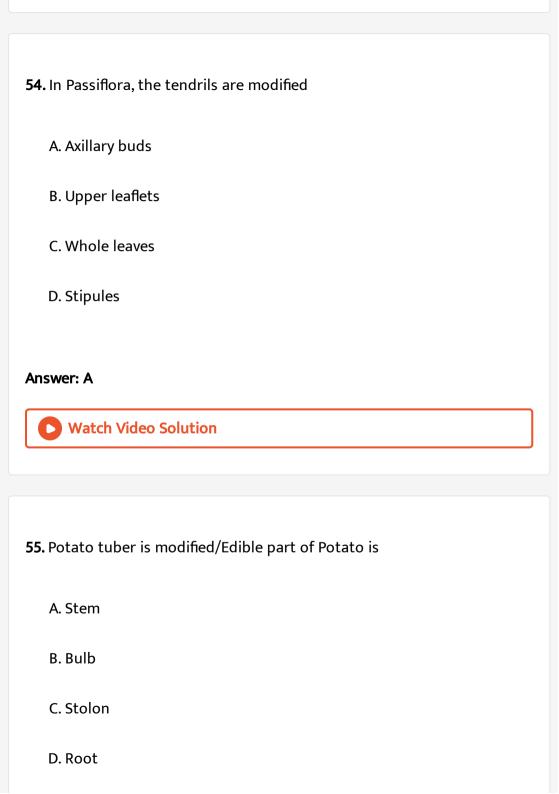
#### Answer: B



<b>49.</b> Jointed stems with hollows internodes are
A. Culms
B. Caudex
C. Scapes
D. Phyllodes
Answer: A
Watch Video Solution
<b>50.</b> Phyllode is a modification of :
A. Leaf
B. Root
C. Flower
D. Stem

# **Answer: D** Watch Video Solution 51. Largest bud is of A. Cabbage B. Cauliflower C. Agave D. Onion Answer: A Watch Video Solution 52. In Colocasia, vegetative reproduction occurs by means of A. Rhizome





# Answer: A



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



**Watch Video Solution** 

57. Rihzomes can be differentiated from roots in

A. Having scale leaves with axillary buds

C. Being thicker D. Being darker Answer: A **Watch Video Solution 58.** Corm is A. Underground shoot B. Underground root C. Horizontal stem D. Underground verical stem **Answer: D Watch Video Solution** 

B. Being thinner

<b>59.</b> Potato is multiplied vegetatively with the help of
A. Corm
B. Rhizome
C. Tuber
D. Phyllode
Answer: C
Watch Video Solution
<b>60.</b> Ginger is multiplied vegetatively by means of
<b>60.</b> Ginger is multiplied vegetatively by means of  A. Bud
A. Bud
A. Bud B. Stem

# Answer: D Watch Video Solution 61. Vegetative reproduction by bulbils is found A. Agave B. Colocasia C. Zingiber D. Vallisnersia Answer: A **Watch Video Solution** 62. In hook climber Artabotrys, the hooks are modified A. Petioles

B. Axillary shoots
C. Leaves
D. Inflorescence axes
Answer: D
Watch Video Solution
<b>63.</b> New Banana plants are developed from
A. Rhizome
B. Sucker
C. Stolon
D. Seed
Answer: B
Watch Video Solution

64. In Agave, vagetative reproduction occurs through
A. Rhizome
B. Stolon
C. Bulbils
D. Sucker
Answer: C
Watch Video Solution
<b>65.</b> Thorn of Bougainvillea is modified
A. Stem
A. Stem B. Leaf
B. Leaf

## Answer: A Watch Video Solution 66. Bulb is modified A. Leaf B. Shoot C. Root D. Flower **Answer: B** Watch Video Solution 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

  Watch Video Solution
- **68.** Thorn 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



<b>69.</b> Citrus thorn/spine is actually modification of
A. Stem
B. Branch
C. Leaf
D. Stipule
Answer: B
Watch Video Solution
<b>70.</b> Most reduced stem occurs in
A. Corm
B. Rhizome
B. Rhizome C. Stem tuber

## **Answer: D** Watch Video Solution 71. In Opuntia, the spines are modifications of A. Stems B. Leaves C. Roots D. None of the above **Answer: B** Watch Video Solution 72. Stem modified into flattend photosynthetic structure is A. Phyllode

C. Phylloclade D. Tendril Answer: C Watch Video Solution 73. Floral bud tendril is found in A. Antigonon B. Smilax C. Rose D. Bryophyllum Answer: A **Watch Video Solution** 

B. Bulbil

<b>74.</b> Stem takes part in storage and perennation in
A. Wheat
B. Groundnut
C. Radish
D. Ginger
Answer: D
Watch Video Solution
<b>75.</b> In Opuntia, the stem is modified into
<b>75.</b> In Opuntia, the stem is modified into  A. Cladode
A. Cladode
A. Cladode  B. Phylloclade

# **Answer: B** Watch Video Solution **76.** Which is not a rhizome? A. Colocasia B. Lotus C. Ginger D. Turmeric Answer: A Watch Video Solution 77. Dichotomous branching is found in A. Liverworts

B. Funaria	
C. Dryopteris	
D. Pinus	
Answer: A	
Watch Video Solution	
<b>78.</b> Ginger plant has an underground stem which is	
A. Rhizome	
B. Bulb	
C. Tuber	
D. Corm	
Answer: A	
TISHCI. A	
Watch Video Solution	

<b>79.</b> A stem with distinct solid nodes and hollow internodes is
A. Sobole
B. Culm
C. Scape
D. Intercalary stem
Answer: B
Watch Video Solution
80. An underground specialised shoot with reduced disc like stem
covered by flashy leaves is
A. Bulb
B. Bulbil
C. Rhizome

# Answer: A Watch Video Solution 81. Sten tendrils occur in A. Smilax B. Gloriosa C. Vitis D. Lathyrus **Answer: C** Watch Video Solution 82. Which of the following is not related to corm A. Tunic

C. Nodes D. Scale leaves Answer: A **Watch Video Solution** 83. What is the eye of potato? A. Apical bud B. Axillary bud C. Accessory bud D. Adventitious bud **Answer: B Watch Video Solution** 

B. Lateral buds

84. Phylloclade is found in
A. Chrysanthemum
B. Asparagus
C. Ruscus
D. Opuntia
Answer: D
<b>▶</b> Watch Video Solution
Trace Trace
85. Thorns with leaves and flowers are found in
85. Thorns with leaves and flowers are found in
85. Thorns with leaves and flowers are found in  A. Bougainvillea
85. Thorns with leaves and flowers are found in  A. Bougainvillea  B. Carissa

## **Answer: C** Watch Video Solution 86. Thick underground stem growing parallel to soil surface is A. Stolon B. Rhizome C. Sucker D. Offset **Answer: B Watch Video Solution** 87. Underground stem is rhizome in plant A. Allium

C. Lilium D. Gloriosa **Answer: D Watch Video Solution** 88. Green leaf-like one internode long stem branches are called A. Phylloclades B. Phyllodes C. Bulbils D. Cladodes **Answer: D Watch Video Solution** 

B. Scilla

89. There is a stem modification in Ruscus. It is
A. Cladode
B. Phylloclade
C. Thorn
D. Corm
Answer: A
Watch Video Solution
<b>90.</b> Edible part of Ginger is
A. Corm
B. Rhizome
C. Bulb
D. Tuber

## Answer: B Watch Video Solution 91. Modification of stem into leaf like cladodes is found in certain A. Hydrophytes B. Heliophytes C. Xerophytes D. Hygrophytes Answer: C Watch Video Solution

92. Match and find in correct combination

(b) Asparagus (e) Phylloclades

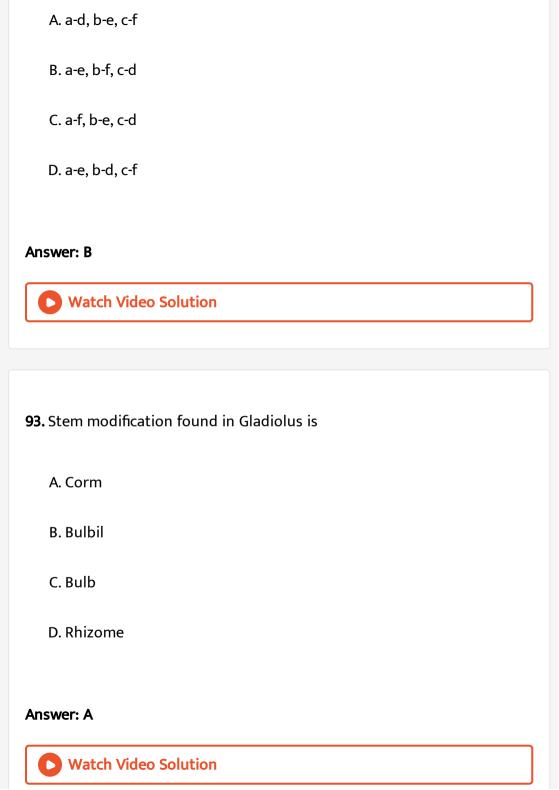
(d) Stem thorns

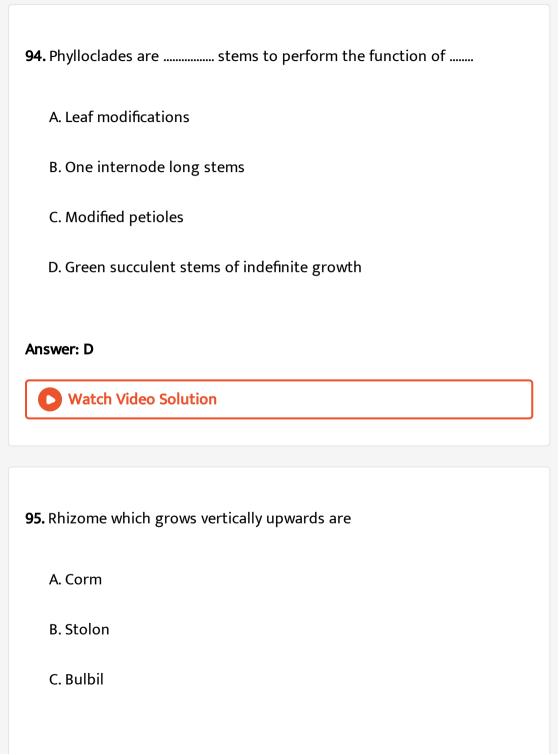
(f) Cladodes

Opuntia

(a)

(c) Citrus





D. Rootstock
Answer: D  Watch Video Solution
<b>96.</b> Underground stem that has contractile roots
A. Rhizome
B. Corm
C. Stem tuber
D. Bulb
Answer: B
Watch Video Solution
<b>97.</b> Bamboo is

A. Culm
B. Bulb
C. Runner
D. Twiner
Answer: A
Watch Video Solution
98. Turmeric powder is obtained from
A. Curcuma longa
B. Curcuma amada
C. Cucurbita sativa
D. Cassia tora
Answer: A
Watch Video Solution

<b>99.</b> Corm is
A. Root
B. Stem
C. Leaf
D. Bud
Answer: B  Watch Video Solution
100. Which one is found only in aquatic plants?
A. Runner
B. Stolon
C. Tuber

D. Offset

#### **Answer: D**



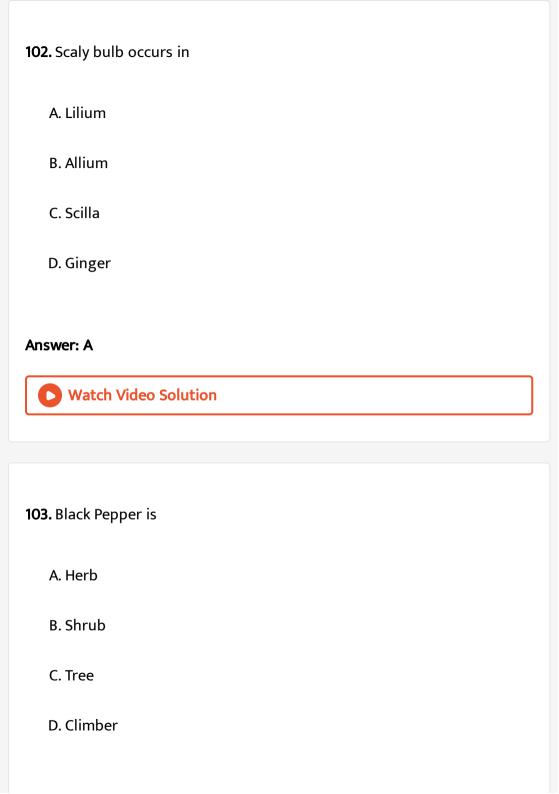
**Watch Video Solution** 

**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**





#### **Answer: D**



### 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**



Watch Video Solution

**105.** Identify plants which show modification of axillary buds into tendrils and hooks respectively

- $(a) \quad Hugonia \qquad (b) \quad Duranta$
- (c) Passiflora (d) Diosc or ea

A. a and b

B. c and a

C. b and c

D. d and a

#### Answer: B



A. Protection
B. Spread of branches
C. Storage, support and vegetative propagation
D. All the above
Answer: D
Watch Video Solution
107. Which one is example of subaerial modification of stem
A. Asparagus
B. Polyalthia
C. Tridax
D. Oxalis
Answer: D
Watch Video Solution

## 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 **Watch Video Solution**

109. Succulent stem is found in

A. Pisum

B. Casuarina

C. Euphorbia

D. Oxalis
Answer: C
Watch Video Solution
440
<b>110.</b> The structure which contain vascular bundle and is modification of
stem is

A. Prickle

B. Thorn

C. Bristle

**Answer: B** 

D. All the above

**111.** Which of the following is an example of stem and leaf tendril , respectively?

A. Grape Vine and Pumpkin

B. Australian Acacia and Water Melon

C. Bougainvillea and Cucumber

D. Strawberry and Grape Vine

#### Answer: A



**Watch Video Solution** 

## 112. Match the following columns.

Column - I Column - II
(A) Underground stem (1) Euphorbia

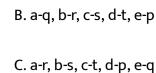
(B)Stem tendril (2)Opuntia

(C)Stem thorns (3) Potato

(D) Flattened stem (4) Citrus

(E) Fleshy cylindrical stem (5) Cucumber

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



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

### Answer: D



**Watch Video Solution** 

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

A. Rhizome

B. Offset

C. Runner

D. Sucker

#### Answer: C



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

- A. Rhizome
- B. Tuber
- C. Bulb
- D. Corm

### **Answer: D**



**Watch Video Solution** 

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

- A. Phylloclade
- B. Cladode

C. Phyllode
D. Sucker
Answer: B
Watch Video Solution
116. The stem of Turmeric is
A. Corm
B. Bulb
C. Rhizome
D. Tuber
Answer: C
Watch Video Solution

## 117. Which is correctly matched A. Onion-Bulb B. Ginger- Sucker C. Chalamydomonas- Conidia D. Yeast - Zoospores Answer: A **Watch Video Solution** 118. Which orientation or movement occurs in rhizome and runner A. Ageotropic B. Negatively geotropic C. Diageotropic D. Phagotropic

### **Answer: C**



**Watch Video Solution** 

## 119. Cladode 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



**Watch Video Solution** 

**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

(b)

- (a) Food storing condensed branches develop in the axils of bracts on the A group of bulbils arises from ground level at the apex of tuberous roo
- (c)Bulbils develop from axils of leaves
- (*d*) One or more internodes of stem stores food and water, becomes tubere
- c d $3 \ 4 \ 1 \ 2$ 
  - 3 1 4 2

a b c d

a b c d1 4

dcD. 2 3

## Answer: B



**Watch Video Solution** 

## 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

ab cd(ii)(v) (i) (iii)b cВ.

(iii) (iv) (ii) (i)db c

(v) (iii) (ii)d

D. (iv) (i) (v) (ii)

 $\boldsymbol{a}$ 

a

(iv)

## Answer: D

C.



123. Cladode is A. Leaf B. Petiole C. Stem D. Root **Answer: C Watch Video Solution** 124. Stem tendrils occur in A. Citrus and Bougainvillea B. Citrus and water melon C. Cucumber and pumpkin D. Opuntia and Bougainvillea

### Answer: C



Watch Video Solution

## 125. Match the columns and choose the right options

Ι

Π

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

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

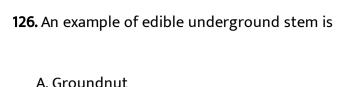
B. a-4, b-1, c-2, d-3

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

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

## Answer: A





- A. Groundilut
- B. Sweet Potato
- C. Potato
- D. Carrot

#### **Answer: C**



**Watch 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**



**Watch Video Solution** 

**128.** Assertion (A) :. Subaerial modifications participate in vegetative 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**



129. Ginger is an example of
A. Stem
B. Root
C. Fruit
D. Bulb
Answer: A
Watch Video Solution
<b>130.</b> This is not an example of aerial modification of stem
A. Corm
B. Tendril
C. Thorn
D. Phylloclade

# Answer: A **Watch Video Solution** 131. RACEMOSE A. Datura B. Saraca C. Casuarina D. Cotton **Answer: C** Watch Video Solution 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**



**Watch Video Solution** 

- **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



<b>134.</b> In Bougainvillea thorns are the modification of
A. Stipules
B. Adventitious root
C. Stem
D. Leaf
Answer: C
Watch Video Solution