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## 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

## - Watch Video Solution

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

## Answer: C

## - Watch Video Solution

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

## Answer: C

## D Watch Video Solution

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

## D Watch Video Solution

8. Buds that produce latetal branches develop at
A. Internodes
B. Apical meristems
C. Auxillary 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

## D Watch Video Solution

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

## D Watch Video Solution

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

## - Watch Video Solution

14. One internode long runner stem of aquatic plants is called
A. Stolon
B. Trailer
C. Offset
D. None of the above

## Answer: C

## - Watch Video Solution

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

## D Watch Video Solution

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

## - Watch Video Solution

18. 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

## - Watch Video Solution

21. Culm is found in
A. Asparagus
B. Bamboo
C. Cucubita
D. Paasiflora

## D Watch Video Solution

22. In a twiner, the twining structure is
A. Tendril
B. Spine/thorn
C. Curved hook
D. Sensitive stem

## Answer: D

## - Watch Video Solution

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

## D Watch Video Solution

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

## - Watch Video Solution

26. Stem is modified into tendril in
A. Bignonia
B. Asparagus
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
28. Offset occurs in
A. Strawberry
B. Colocasia
C. Pistia
D. Chrysanthemum

## Answer: C

## D Watch Video Solution

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

## - Watch Video Solution

31. Stem is specialised to perennate and store food in
A. Groundnut
B. Ginger
C. Beet
D. Sugarcane

## - Watch Video Solution

32. Type of stem structure present in Colocasia is
A. Corm
B. Bulb
C. Rhizome
D. Tuber

## Answer: A

Watch Video Solution
33. Mentha (Mint) has one of the following
A. Sucker
B. Offset
C. Stolon
D. Rhizome

## Answer: A

## - Watch Video Solution

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

## - Watch Video Solution

36. The common mode of vegetative reproduction in Ginger is through
A. Corm
B. Rhizome
C. Bulb
D. Stem cuttings
37. Edible portion of Onion is
A. Tunic
B. Stem
C. Scape
D. Leaf bases

## Answer: D

Watch Video Solution
38. Banana is multiplied through
A. Root cuttings
B. Corm
C. Rhizome
D. Bulb

## Answer: C

## - Watch Video Solution

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

## - 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
B. Seeds
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

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

## - Watch Video Solution

46. Corm is characterised by
A. Adventitious roots
B. Axillary buds
C. Circular nodes
D. Perennial nature

## Answer: C

## D 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

## - Watch Video Solution

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

## - Watch Video Solution

51. Largest bud is of
A. Cabbage
B. Cauliflower
C. Agave
D. Onion

## D Watch Video Solution

52. In Colocasia, vegetative reproduction occurs by means of
A. Rhizome
B. Corm
C. Offset
D. Bulb

## Answer: B

53. In Amorphophallus, vegetative multiplication occurs through
A. Bulbils
B. Rhizome
C. Corm
D. Offset

## Answer: C

## D Watch Video Solution

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

## - Watch Video Solution

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
B. Being thinner
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

## D Watch Video Solution

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

## D Watch Video Solution

61. Vegetative reproduction occurs by bulbil in
A. Agave
B. Colocasia
C. Zingiber
D. Vallisnersia

## D 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

63. New Banana plants develop from
A. Rhizome
B. Sucker
C. Stolon
D. Seed

## Answer: B

## - Watch Video Solution

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

## - 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. 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

## - Watch Video Solution

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

## - Watch Video Solution

71. In Opuntia, the spines are modifications of
A. Stems
B. Leaves
C. Roots
D. None of the above

## - Watch Video Solution

72. Stem modified into flattend photosynthetic structure is
A. Phyllode
B. Bulbil
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

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

## - Watch Video Solution

76. Which is not a rhizome
A. Colocasia
B. Lotus
C. Ginger
D. Turmeric
77. Dichotomous branching occurs
A. Liverworts
B. Funaria
C. Dryopteris
D. Pinus

## Answer: A

## - Watch Video Solution

78. Ginger plant has an underground stem which is
A. Rhizome
B. Bulb
C. Tuber
D. Corm

## Answer: A

## - Watch Video Solution

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

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
B. Lateral buds
C. Nodes
D. Scale leaves

## Answer: A

83. Eye of Potato is
A. Apical bud
B. Axillary bud
C. Accessory bud
D. Adventitious bud

## Answer: B

## - Watch Video Solution

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

## - Watch Video Solution

86. Thick underground stem growing parallel to soil surface is
A. Stolon
B. Rhizome
C. Sucker
D. Offset

## D Watch Video Solution

87. Underground stem is rhizome in plant
A. Allium
B. Scilla
C. Lilium
D. Gloriosa

## Answer: D

## 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

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

## D 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
(a) Opuntia
(d) Stem thorns
(b) Asparagus
(e) Phylloclades
(c) Citrus
(f) Cladodes
A. $a-d, b-e, c-f$
B. $a-e, b-f, c-d$
C. a-f, b-e, c-d
D. $a-e, b-d, c-f$

## Answer: B

## D Watch Video Solution

93. Stem modification found in Gladiolus is
A. Corm
B. Bulbil
C. Bulb
D. Rhizome

## Answer: A

## D Watch Video Solution

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

## - Watch Video Solution

96. Underground stem that has contractile roots
A. Rhizome
B. Corm
C. Stem tuber
D. Bulb

## Answer: B

## - Watch Video Solution

97. 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

## D Watch Video Solution

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

## - 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

## - Watch Video Solution

102. Scaly bulb occurs in
A. Lilium
B. Allium
C. Scilla
D. Ginger

## Answer: A

## - Watch Video Solution

A. Herb
B. Shrub
C. Tree
D. Climber

## Answer: D

## - Watch Video Solution

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

## D Watch Video Solution

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

## - 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

## D Watch Video Solution

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
A. Underground stem
B. Stem tendril
C. Stem thorns
D. Flattened stem
E. Fleshy cylindrical stem 5. Cucumber
A. $a-p, b-q, c-r, d-t, e-s$
B. $\mathrm{a}-\mathrm{q}, \mathrm{b}-\mathrm{r}, \mathrm{c}-\mathrm{s}, \mathrm{d}-\mathrm{t}, \mathrm{e}-\mathrm{p}$
C. $a-r, b-s, c-t, d-p, e-q$
D. a-r, b-t, c-s, d-q, e-p

## Answer: D

## - 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

## D Watch Video Solution

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

## 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

## D Watch Video Solution

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

## - Watch Video Solution

121. Match the lists

## I

(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,
A.
A. $\begin{array}{llll}3 & 4 & 1 & 2\end{array}$
B. $\begin{array}{llll}a & b & c & d \\ 3 & 1 & 4 & 2\end{array}$
C. $\begin{array}{llll}a & b & c & d \\ 5 & 1 & 2 & 4\end{array}$
D. $\begin{array}{llll}a & b & c & d \\ 1 & 2 & 5 & 3\end{array}$

## Answer: B

## - Watch Video Solution

122. Match the lists

## I

(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
A. $\begin{array}{llll}a & b & c & d \\ (i i) & (v) & (i) & (i i i)\end{array}$
B. $\begin{array}{llll}a & b & c & d \\ & (i i i) & (i v) & (i i) \\ & (i)\end{array}$
$\begin{array}{lllll}\text { C. } & \begin{array}{llll}a & b & c & d \\ & (i v) & (v) & (i i i)\end{array} & (i i)\end{array}$
$\begin{array}{llll}a & b & c & d\end{array}$
$(i v) \quad(i) \quad(v) \quad(i i)$

Answer: D

## - Watch Video Solution

123. A cladode is modified
A. Leaf
B. Petiole
C. Stem
D. Root

## Answer: C

## - Watch Video Solution

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

## ( Watch Video Solution

125. Match the columns and choose the right options
I
(a) Ginger
(b) Pumpkin
(c) Bougainvillea
(d) Opuntia
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. $a-3, b-4, c-2, d-1$

## D Watch Video Solution

126. An example of edible underground stem is
A. Groundnut
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 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

## - Watch Video Solution

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

## Answer: A

Watch Video Solution
130. 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. 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

- Watch Video Solution

134. In Bougainvillea, thorns are the modifications of
A. Stipules
B. Adventitious root
C. Stem
D. Leaf

## Answer: C

