# ©゙" doubtnut 

India's Number 1 Education App

## BIOLOGY

## BOOKS - TRUEMAN'S BIOLOGY

## (ENGLISH)

## Plant Morphology \& Reproduction

## Assertion And Reason

1. [A]: Leaf base is the point of attachment of
leaf to stem .
[R] : Entire leaf axis is called anisophylly .
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

2. [A] : Above ground stolons produce new plants where nodes touch the ground.
$[\mathrm{R}]$ : Rhizomes survive the winter and contribute to asexual reproduction .
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

3. [A] : Bulb does not function in vegetative reproduction .
[R]: It is a modified structure, either a bulbil or root.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

D Watch Video Solution
4. [A] : The function of phyllotaxy is to display leaves properly.
$[R]$ : It is for getting maximum light by all leaves so that chance of shading is reduced .
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

5. [A] : Stilt roots are common in sugarcane,
[R] : In sugarcane, these roots are stout which grow straight from lower internodes.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

6. [A]: In creepers, leaves are produced upon
the nodes.
[R] : Adventitious roots arise from the nodes.
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

7. [A] : Thorns may bear nodes and internodes
in some plants.
$[R]$ : Thorns are modified stems as they arise in
the axil of a leaf or at the apex a branch.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

8. [A] : The switchover from vegetative to reproductive phase is now possible to shorten or prolong by altering the light conditions.
[R] : Plant morphologists regard flower as a modified shoot of determined growth with highly condensed internodes.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

9. [A] : Insectivorous plants grow in
carbohydrate deficient soil.
[R] : Insectivorous plants grow in nitrogen rich soil.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

10. [A] : Synandrous condition is found in curcurbits.
[R] : The male flower of curcurbits, generally, contains five stamens which are laterally fused
(anthers and filaments both).
A. (a) If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. (b) If both $A$ and $R$ are true but $R$ is not
the correct explanation of A
C. (c) If $A$ is true and $R$ is false

## D. (d) If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

11. [A] : Thorns may bear nodes and internodes
in some plants.
$[\mathrm{R}]$ : Thorns are modified stems as they arise in
the axil of a leaf or at the apex a branch.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

12. [A]: For dispersal by wind fruits and seeds should be light.
$[R]$ : So that their buoyancy may help them to
fly upto a long distance.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

13. Assertion. Dispersal of fruits in Xanthium
takes place by wind and water.

Reason. Fruits are light and floating.
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

14. [A] : For dispersal by wind fruits and seeds
should be light.
$[R]$ : So that their buoyancy may help them to
fly upto a long distance.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

15. [A] : Xenogamy is defined as the transferance of pollen grain to stigma of same flower.
[R]: In xenogamy, the pollen grain of a flower are transferred to stigma of a different flower of a different plant of different species.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$

## $C$. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

16. [A] : Anemophillous plants have to produce enormous quantities of pollen.
$[R]$ : Because during the transit of pollen
through a wind, a considerable amount of pollen is lost.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

17. [A]: Bees are colour-blind for red and are fond of yellow, violet and purple.
[R]: Normally only one pollen tube develops from a pollen grain.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

## - Watch Video Solution

18. Assertion. The time involved between
pollination and fertilization varies from
species to species

Reason. All the pollen that reach the stigma
succeed in affecting fertilization.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

19. [A] : The presence of endothelium around the embryo sac and its cytological features sugest that it may be functionally similar to
the anther tapetum .
$[\mathrm{R}]$ : For this reason endothelium is also called integumentary tissue .
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## - Watch Video Solution

20. [A] : Synergids play an important role in directing the pollen tube growth .
[R] : Because synergids secrete some chemotropically active substance .
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$

B. If both $A$ and $R$ are true but $R$ is not the

correct explanation of $A$

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer:

## - Watch Video Solution

21. Assertion. In apomixis, plants of new genetic sequence are produced.

Reason. In apomixis, two individuals of same genetic sequence meet .
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer:

## D Watch Video Solution

22. [A] : Nucleus of pollen grain divides meiotically and form a pollen tube and a generative nucleus .
[R]: Nucleus of pollen grain divides meiotically to form pollen tube and generative nucleus.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer:

## D Watch Video Solution

23. [A]: Incompatibility is a gene physiological
process.
[R]: Moderately high temperatures are also known to reduce self incompatibility reaction
in certain plants.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## - Watch Video Solution

24. [A]: The pollen sterility has been attributed to the malfunctioning of tapetum.
[R]: Premature degeneration of the tapetum deprives the developing spores of its nutrition.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: A

## D Watch Video Solution

25. [A]: The three cells of the egg apparatus are arranged in a triangular fashion.
[ R ): The degenerating synergid forms the seat for pollen tube discharge in the embryo sac
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: D

## D Watch Video Solution

26. [A]: Pollen grains from male parent are mostly transferred to the stigma in the female parent by some external ageincy. [R]: This is because the male flowers or male organs have no intemal device to reach the female organs in another flower
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of A

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer: A

## D Watch Video Solution

27. [A]: The two sperms cells in a pollen tube often change their shape.
[R]: The sperms are released in the synergid as intact cells but only their nuclei migrate
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## - Watch Video Solution

28. [A] : Synandrous condition is found in curcurbits.
[R] : The male flower of curcurbits, generally, contains five stamens which are laterally fused
(anthers and filaments both).
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: A

## D Watch Video Solution

29. [A]: In certain plants the stem that twins
around the support is hard and woody, such
plants are called psammophytes.
[R]: The hygroscopic roots have a spongy
tissue called exodermis
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: D

## D Watch Video Solution

30. [A]: Leaf in Daucus carota is decompound.
[R]: Saprophytic and parasitic modes of nutrition are considered as advanced feature
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## D Watch Video Solution

31. [A]: The colour of flowers in Bougainvillia is due to the coloured bracts.
[R]: The flowers of Bougainvillia are largest among the plant kingdom.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: A

## D Watch Video Solution

32. [A]: The endosperm contains the triploid number of chromosomes.
[R]: The endosperm is formed as a result of
fusion of two polar nuclei and one of the male nuclei
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

D Watch Video Solution
33. [A]: Spore mother cells within the anther pollen sacs form four haploid pollen grains.
[R]: Spore mother cells divide meiotically to form four haploid pollen grains.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: B

## D Watch Video Solution

34. [A]: One diploid embryo sac mother cell develops within the nucellus of the ovule.
[R]: Embryo sac mother cell divides meiotically and one of the cells produced becomes the haploid embryo sac.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## - Watch Video Solution

35. [A]: Triple fusion results in veg~tative fertiliza- tion of angiosperms.
[R]: It combines one male gamete with two synergids.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## - Watch Video Solution

36. [A]: Pollination is essential for fertilization.
[R]: Abscission or drooping of ovary is prevented by pollination.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A

## $C$. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

Answer: B

## D Watch Video Solution

37. [A]: The biennial plants live for two years.
$[\mathrm{R}]$ : They flower in both years.
A. If both $A$ and $R$ are true and $R$ is the
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: C

## D Watch Video Solution

38. Assertion (A): Many visitors to the hills suffer from skin and respiratory allergy problems.

Reason (R): Conifer trees produce a large quantity of wind- borne pollen grains.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B
39. [A]: Endosperm is tripolid in angiosperms.
[R]: In gymnosperms, it is haploid.
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## D Watch Video Solution

40. Assertion. A pollen grain of angiosperm is considered as the male gametophyte .

Reason. All the nuclei of the pollen grain produce male gametes.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: C

## D Watch Video Solution

41. Assertion. In apomixis, plants of new genetic sequence are produced.

Reason. In apomixis, two individuals of same genetic sequence meet.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: D

42. Assertion : In collateral vascular bundles phloem is situated toward inner side.

Reason : In monocot stem, cambium is present
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: D

## - Watch Video Solution

43. [A]: The secondary phloem constitutes a
less prominent part of the tree trunk than the
secondary xylem
$[\mathrm{R}]$ : The amount of Phloem produced by the cambium is smaller than that of secondary
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

## - Watch Video Solution

44. [A] : The narrow band of meristemetic
tissue present between pholem and xylem is
called cambium
[R] : In dicotyleyledonous steam a part of the procambium remain maristemetic which is called cambium
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$

## $C$. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer: A

## - Watch Video Solution

45. [A]: The inner most distinict layer of the cortex is called endodermis.
(R]: The cells of endodermis are nonliving and bear casparian strips
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: C

## D Watch Video Solution

46. [A]: Gramineoos type of stomata are found in Gramineae and Cyperaceae.
[R]: Gramineous stoma1a are dumbbell shape
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

## D Watch Video Solution

47. [A]: Intercellular spaces are found in merisematic cells
(R]: The mesistematic cells are always rounded.
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A

## C. If $A$ is true and $R$ is false

D. If both $A$ and $R$ are false

## Answer: D

## D Watch Video Solution

48. [A]: Monocot stem has collateral open
vascu- lar bundle.
[R]: Open vascular bundle is without cambium.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: D

## D Watch Video Solution

49. [A]: Root system in hydrophytes is poorly de- veloped.
[R]: The condition helps hydrophytes to avoid maximum water absorption
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

## D Watch Video Solution

50. [A]: Aerenchyma is a characteristic of lithophyte.
[ R ]: It is a specialised tissue for buoyancy in lithophytes
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: D

## D Watch Video Solution

51. [A]: Protostele is most simple primitive type of stele.
[R]: According to Histogen theory there are
three distinct apical layers which give rise to distinct tissue system of the body.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B
52. [A]: Rubber is obtained from the latex of Hevea brasiliensis.
[R]: Because secretory canals are abun- dantly found in the secondary phloem
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: A

## D Watch Video Solution

53. [A]: No fibres are found in plants.
[R]: Xylem vessels are absent in an- giosperms.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: D

## D Watch Video Solution

54. [A]: Sclerenchyma cells are rarely found in plants.
[R]: Sclerencyma cells are dead but have protoplasm
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: D

D Watch Video Solution
55. [A]: Hanstein's dermatogen is not eqyivalent to Haberlandt's Protoderm.
[R]: Histogen theory has been proposed by Schemidt
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of A
C. If $A$ is true and $R$ is false

## D. If both $A$ and $R$ are false

## Answer: C

## D Watch Video Solution

56. [A]: Trichomes may occur on all parts of a plant.
[R]: Trichomes either persist throughout the life of an organ or are ephemeral
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B

## - Watch Video Solution

57. [A]: The vascular cambium is absent in monocots.
[R]: The monocots never show secondary growth
A. If both $A$ and $R$ are true and $R$ is the
correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

## D Watch Video Solution

58. [A]: In the hydrophytes the Xylem is not differentiated into different types of cells.
[R]: Xylem provides support and helps in the conduction of water which is not very important in hydrophytes
A. (a) If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. (b) If both $A$ and $R$ are true but $R$ is not
the correct explanation of A
C. (c) If $A$ is true and $R$ is false
D. (d) If both $A$ and $R$ are false

Answer: A

D Watch Video Solution
59. [A]: Dicot stem shows secondary growth.
[ R ]: Tissue system is not differentiated in dicot stem.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: C

## D Watch Video Solution

60. Assertion : In woody stems, the amount of
heartwood continues year after year.

Reason: The cambial activity continues uninterrupted.
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the
correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: A

## D Watch Video Solution

61. [A]: The inner most distinct layer of the cortex is called endodermis.
[R]: The cells of endodermis are nonliving and bear casparian strips
A. If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

## Answer: C

## D Watch Video Solution

62. [A]: Sieve tube members have abundant cytoplasm but there is no nucleus.
[R]: The nucleus disintegrates during their development
A. (a) If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. (b) If both $A$ and $R$ are true but $R$ is not
the correct explanation of A
C. (c) If $A$ is true and $R$ is false
D. (d) If both $A$ and $R$ are false

Answer: A

- Watch Video Solution

63. Assertion : In collateral vascular bundles
phloem is situated toward inner side.

Reason : In monocot stem, cambium is present
A. (a) If both $A$ and $R$ are true and $R$ is the correct explanation of $A$
B. (b) If both $A$ and $R$ are true but $R$ is not
the correct explanation of A
C. (c) If $A$ is true and $R$ is false

## D. (d) If both $A$ and $R$ are false

## Answer: D

## D Watch Video Solution

64. [A]: Xylem translocates water and dissolved
mineral salts from the roots to the rest of the plant.
[R]: Phoem translocates dissolved organic and inorganic solutes
A. If both $A$ and $R$ are true and $R$ is the correct explanation of A
B. If both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
C. If $A$ is true and $R$ is false
D. If both $A$ and $R$ are false

Answer: B
( Watch Video Solution

