# ©゙" doubtnut 

## BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

## 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:

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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:

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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:

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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:

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6. [A] : Increppers, 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:

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7. [A] : Thorns in some plants may bear nodes and internodes.
[R]: Thorns are modified stems because they are formed either in the axil of a leaf or at the apex of 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:

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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:

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9. [A] : Insectivorous plants grow in
carbohydrate deficiend 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:

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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. 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:

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11. [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:

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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:

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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:

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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:

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15. [A] : Xenogamy is defined as the transferance of pollen grain to stigma of same flower.
[R]: In xenogamy, the pollen frain 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:

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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:

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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:

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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:

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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

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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:

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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:

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## 22. Pollen tube is a part of

A. Male gamete

B. Female gamete

C. Embryosac

D. None of these

## Answer:

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

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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

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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

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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 intenal 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

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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

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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

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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 nutri- .
tion 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

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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

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32. [A]: The endosperm contai_ns 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

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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

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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

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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

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36. [A]: Pollination is essential for fertilization.
[R]: Abscission or drooping of ovary is prented 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

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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

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

Reason : 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

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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

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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

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41. The number of antipodals cells in the matured embryo sac is
A. 3
B. 4
C. 2
D. 5

## Answer: D

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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

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43. [A]: The secondary pholem consititutes a
less poriment part of the tree trunk than the secondry xylem
$[R]$ : The amount of Phloem produced by the cambium is smaller than that of seconday
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

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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

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45. [A]: The inner most distinict layer of the cortex is called endomermis.
[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

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46. [A]: Gramineous 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

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47. [A]: Intercellular spaces are found in meristematic cells
[ R ]: The meristematic 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

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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

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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

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50. [A]: Aerenchyma is a characteristic of lithophyte.
$[\mathrm{R}]$ : 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

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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

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

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

Answer: B

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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

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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
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

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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

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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

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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

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58. [A]: In the hydrophytes the Xylem is not differ- entiated into different types of cells.
[R]: Xylem provides support and helps in the
conduction of water which is not very important in hydrophytes
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
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

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60. given below are assertion and reson. Point out if

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

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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

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62. [A]: Sieve tube members have abundant cytoplasm but there is no nucleus.
[R]: The nucleus disint~grates during their development
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

63. 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

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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
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