

BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

ASEXUAL AND SEXUAL REPRODUCTION IN PLANTS

Textual Questions Solved

- 1. Choose the correct statement from the following
 - A. Gametes are involved in asexual reproduction
 - B. Bacteria reproduce asexually by budding
 - C. Conidia formation is a method of sexual reproduction
 - D. Yeast reproduce by budding

Answer: C



- Watch Video Solution
- **2.** An eminent Indian embryologist is
 - A. S.R. Kashyap
 - B. P.Maheswari
 - C. M.S Swaminathan
 - D. K.C Mehta

Answer: B



- **3.** Identify the correctly matched pair
 - A. Tuber -Allium cepa
 - B. Sucker Pistia
 - C. Rhizome Musa

D. Stolon - Zingiber
Answer: C
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4. Pollen tube was discovered by
A. J.G Kolreuter
B. G.B Amici
C. E. Strasburger
D. E. Hanning
Answer: B
Watch Video Solution
5. Size of pollen grains in Myosotis

B. 20 micrometer C. 200 micrometer D. 2000 micrometer Answer: A **Watch Video Solution** 6. First cell of male gametophyte in angiosperm is A. Microspore B. Megaspore C. Nucleus D. Primary Endosperm Nucleus Answer: A **Watch Video Solution**

A. 10 micrometer

7. Match the following

III) Male gametophyte

I) External fertilizaion (i) pollen gain

II) Androecium (ii) anther wall

Iv) Primary parietal layer (iv) stamens

A.
$$I-(iv), II-(i), III-(ii), IV-(iii)$$

(iii) algae

$$\mathtt{B}.\,I-(iii),II-(iv),III-(i),IV-(ii)$$

$$\mathsf{C.}\,I-(iii),II-(iv),III-(ii),IV-(i)$$

D.
$$I-(iii), II-(i), III-(iv), IV-(ii)$$

Answer: B



- 8. Arrange the layers of anther wall from locus to periphery
 - A. Epidermis , middle layers , tapetum , endothecium
 - B. Trapetem, middle layers, epidermis, endothecium

- C. Endothecium , epidemis , middle layers , tapetum
- D. Tapetum, middle layers endothecium epidermis

Answer: D



- **9.** Identify the incorrect pair from the below:
 - A. sporopollenin exine of pollen grain
 - B. tapetum nutritive tissue for developing microspores
 - C. Nucellus nutritive tissue for developing embryo
 - D. obturator directs the pollen tube into micropyle

Answer: C



10. Assertion: Sporopollenin preserves pollen in fossil deposits.

Reason : Sporopollenin is resistant to physical and biological decomposition

- A. assertion is true, reason is false
- B. assertion is false, reason is true
- C. Both Assertion and reason are not true.
- D. Both Assertion and reason are true.

Answer: D



- 11. Choose the correct statement (s) about tenuinucellate ovule
 - A. Sprogenous cell is hypodermal
 - B. Ovules have fairly large nucellus
 - C. sporogenous cell is epidermal

D. ovules have single layer of nucellus tissue
Answer: A
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2. Which of the following represent megagametophyte?
A. Ovule
B. Embryo sac
C. Nucellus
D. Endosperm
Answer: B
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13. In Haplopappus gracilis , number of chromosomes in cells of nucellus is 4. What will be the chromosome number in Primary endosperm cell ?
A. 8
B. 12
C. 6
D. 2
Answer: B Watch Video Solution
14. Transmitting tissue is found in
A. a) Micropylar region of ovule
B. b) Pollen tube wall
C. c) Stylar region of gynoecium
D. d) Integument

Answer: C



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15. The scar left by function in the seed is

A. tegmen

B. radicle

C. epicotyl

D. hilum

Answer: D

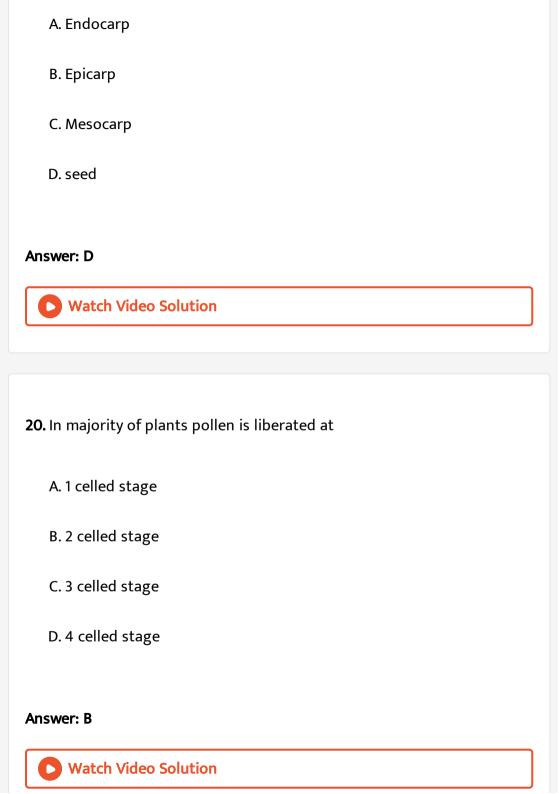


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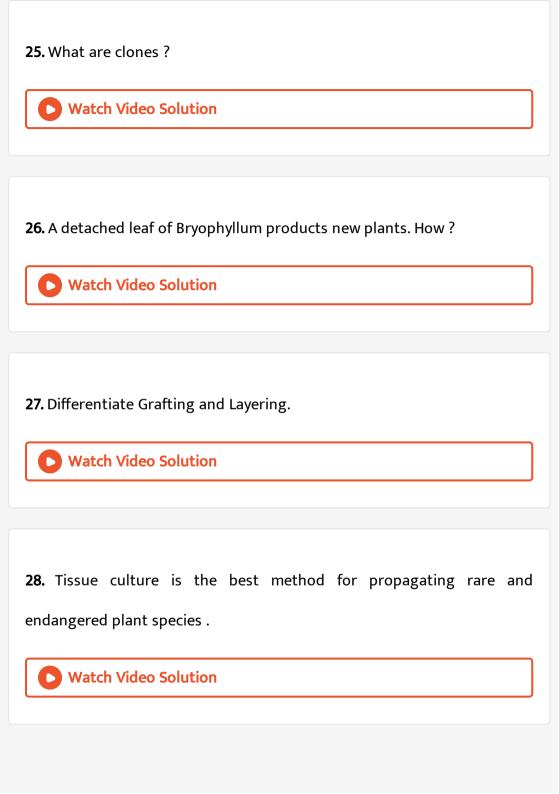
16. A Plant called X possesses small flower with reduced perianth and versatile anther . The probable agent for pollination would be

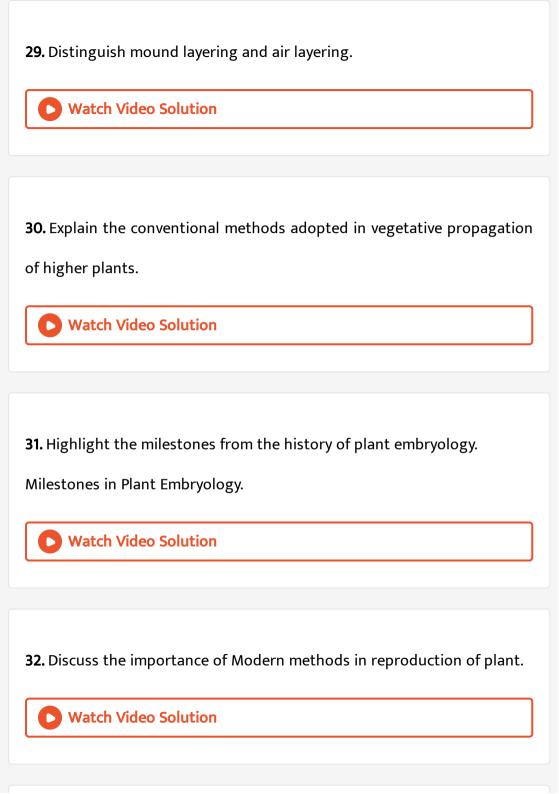
A. water B. air C. butterflies D. beetles **Answer: B Watch Video Solution** 17. Consider the following statement(s) In Protandrous flowers pistil matures earlier In Protogynous flowers pistil matures earlier Herkogamy is noticed in unisexual flower. Distyly is present in Primula. A. i and ii are correct B. ii and iv are correct C. ii and iii are correct

D. i and iv are correct
Answer: B
Watch Video Solution
18. Coelorhiza is found in
A. Paddy
B. Bean
C. Pea
D. Tridax
Answer: A
Watch Video Solution
19. Parthenocarpic fruits lack

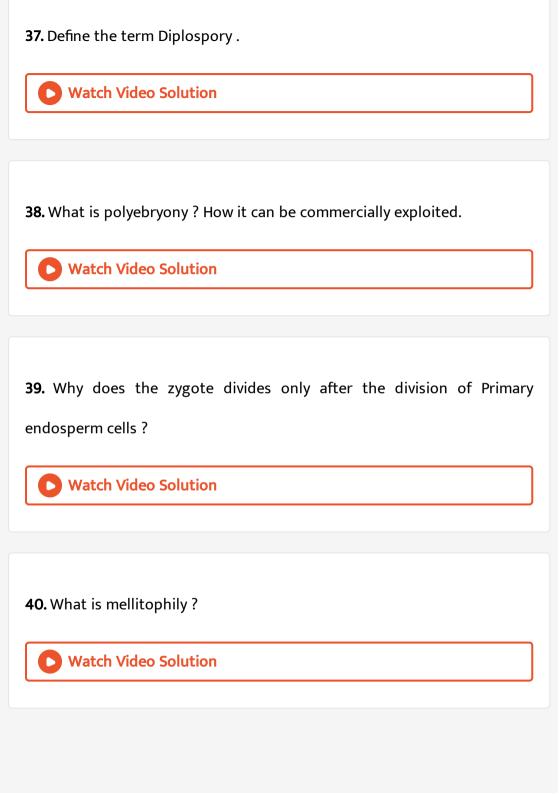


21. What is reproduction?
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22. Mention the contribution of Hofmeister towards Embryology.
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23. List out two sub-aerial modification with example.
Watch Video Solution
24. What is layering?
Watch Video Solution

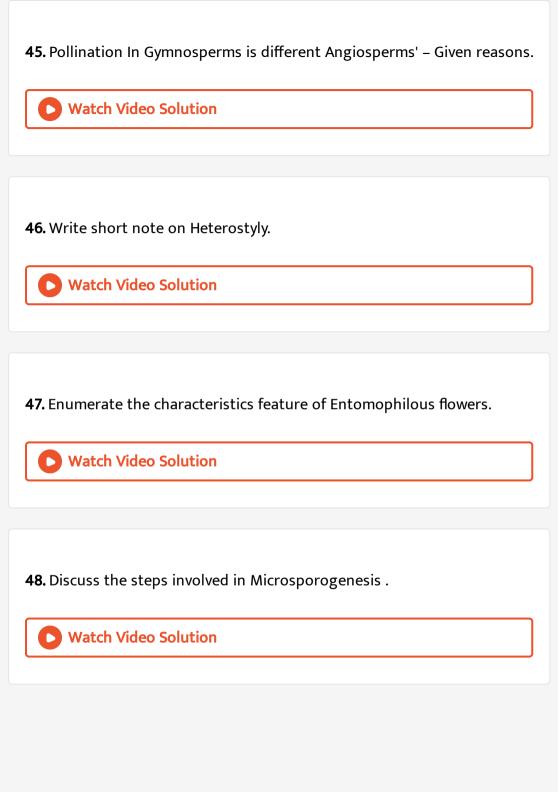


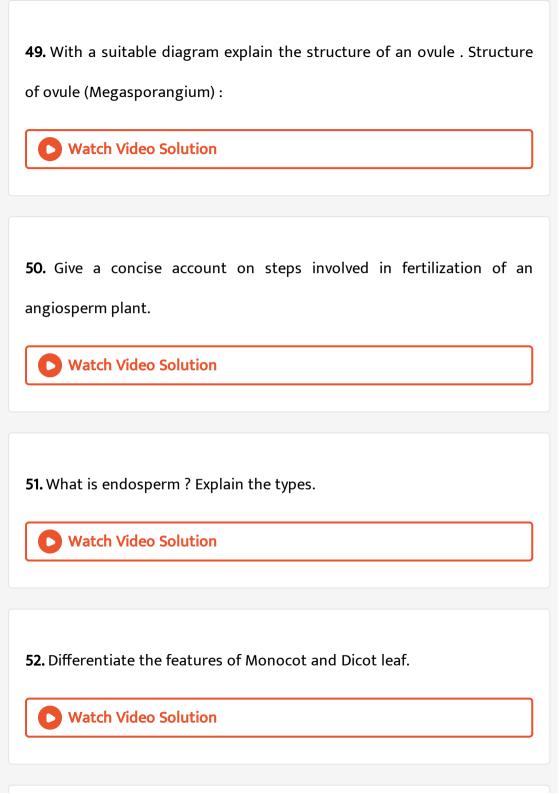


33. What is Cantharophily ?
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34. List any two strategy adopted by bisexual flowers to prevent self-
pollination .
Watch Video Solution
35. What is endothelium ?
Watch Video Solution
36. ' The endosperm of angiosperm is different from gymnosperm " . Do you agree . Justify your answer.
Watch Video Solution



41. Endothecium is associated with dehiscence of anther Justify the
statement .
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42. List out the function of tapetum .
Watch Video Solution
43. Write short note on Pollen kitt.
Watch Video Solution
44. Distinguish tenuinucellate and crassinucellate ovules.
Watch Video Solution





53. Give a detailed account on parthencarpy. Add a note on its significance.



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Additional Questions 1 Mark Questios

- 1. Match the following:
- (1) Conidia (i) Yeast
- (2) Budding (ii) Bacteria
- (3) Gamma cups (iii) Aspergillus
- (4) Binary fission (iv) Marchantia
 - A. 1 (iii), 2- (i), 3 (iv), 4 (ii)
 - B. 1 (ii), 2- (iv), 3 (iii), 4 (i)
 - C. 1 (iv), 2- (ii), 3 (i), 4 (iii)
 - D. 1 (iii), 2- (i), 3 (iv), 4 (ii)

Answer: A



Marab Walas Calastan

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2. The unit of reproductive structure used in vegetative propagation is
called as
A. Diplospores
B. Aplanospores
C Diagnores
C. Diaspores
D. Condiospores
Answer: C
Match Video Colution
Watch Video Solution
3. Which of the following aquatic plant is popularly known as the "Terror
3. Willer of the following aquatic plant is popularly known as the Terror
of Bengal " ?
A. a) Eichornia crassipes
P. h.) Vallianaria aniralia
B. b) Vallisneria spiralis

C. c) Pistia stratiotes
D. d) Zostera marina
Answer: A
Watch Video Solution
1. Identify the incorrect statement regarding vegetative reproduction.
A. a) Only one parent is required for propagation.
B. b) New individuals are genetically dissimilar.
C. c) Easy mode of reproduction.
D. d) Variation does not exist.
Answer: B
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5. A property of plant cells enabling it to produce a entire plant from a tissue _____. A. Multipotency **B.** Totipotency C. Pleuripotency D. Differentiation **Answer: B Watch Video Solution** 6. A typical anther is A. a) Bisporangiate B. b) Tetrasporangiate C. c) Unisporangiate D. d) Multisporangiate

Answer: B



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7. Match the following:

Vegetative Reproductive structures

- (1) Rhizome
- (2) Tunicated bulb
- (3) Corm
- (4) Offset

- (i) Allium cepa
- (ii) Zingiber officinale
- (iii) Pistia stratiotes
- (iv) colocasia

Answer: A



8. Innermost layer of anther wall is
A. a) Endothecium
B. b) middle layer
C. c) epidermal
D. d) Tapetum
Answer: D
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9. Identify the mismatched pair :
A. Epidermal layer -Protective infunction
B. Endothecium layer -Helps in dehiscence of anther
C. Middle layer -Persistent layer
D. Tapetum -Nutritive in function

Answer: C Watch Video Solution 10. Who discovered the pollen tube? A. E. Straburger B. Hofmeister C. Nehemiah Grew D. G.B. Amici Answer: D Watch Video Solution 11. Identify the mismatched pair: i. Sucker - Chrysanthemum ii Bulbils - Agave iii. Stolon - Fragaria iv. Runner -Lilium

A. i only B. ii only C. iii only D. iv only Answer: D Watch Video Solution 12. Assertion (A): Epidermis is protective in function. Reason (R): Epidermis is outermost unilayer of anther wall. A. a) A is correct R is incorrect B.b) R explains A C. c) Both A and R are incorrect D. d) Both A and R are correct . R does not explain R. **Answer: B**

13. Assertion (A): Microspores are the first cell of male gametophyte.

Reason (R): Microspores undergo development and forms pollen grains.

- A. A is correct R is incorrect
- B. R explains A
- C. Both A and R are incorrect
- D. Both A and R are correct . R does not explain R.

Answer: B



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14. Assertion (A): Carica papaya is a dioecious plant.

Reason (R): Both male and female are borne on same plant.

A. A is correct R is incorrect

B. R explains A

C. Both A and R are incorrect

D. Both A and R are correct . R does not explain R.

Answer: A



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15. Assertion (A): Anemophilous pollination occurs by animals.

Reason (R): Pollen grains are sticky for easy attachment on animals.

- A. A is correct R is incorrect
- B. R explains A
- C. Both A and R are incorrect
- D. Both A and R are correct . R does not explain R.

Answer: C



16. Assertion (A): Fusion of male and female gametes results in zygotes.

Reason (R): Product of triple fusion is PEN.

A. A is correct R is incorrect.

B. R explains A

C. Both A and R are incorrect

D. Both A and R are correct . R does not explain A.

Answer: D



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17. Assertion (A): Zea mays is monocotylednous plant.

Reason (R): Shield shaped cotyledon is called scutellum.

A. A is correct R is incorrect.

B. R explains A

C. Both A and R are incorrect

D. Both A and R are correct . R does not explain A.

Answer: B



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18. Assertion (A) : In Bryophyllum, vegetative propagation , occurs through leaf .

Reason (R): Epiphyllous buds are noticed in Bryophyllum.

A. A is correct R is incorrect.

B. R explains A

C. Both A and R are incorrect

D. Both A and R are correct . R does not explain R.

Answer: B



19. Assertion (A): Androecium and Gynoecium are essential whorls of flower

Reason (R) Androecium and Gynoecium assist the reproduction.

- A. A is correct R is incorrect.
- B. R explains A
- C. Both A and R are incorrect
- D. Both A and R are correct . R does not explain R.

Answer: A



- 20. Identify the correct statement from the following:
 - A. Grafting is a modern method of artificial propagation.
 - B. The plant which is used for graft is scion.

C. In tongue grafting , the scion bud is placed inside the incision

beneath bark.

D. Grafting is usually carried out in monocot plants.

Answer: B



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21. Statement 1 : Flower is a highly condensed shoot for reproductive purpose.

Statement 2 : A complete flower possess four whorls.

A. Both the statements are incorrect.

B. Statement 1 is correct and Statement 2 is incorrect .

C. Both the statements are correct

D. Statement 1 is incorrect and statement 2 is correct.

Answer: C



- A. One seeded fruit of paddy is caryopsis.
- B. Primitive root is called coleorhiza.
- C. Scutellum is a part of monocot seed.
- D. Embryonic axis above the cotyledon is epicotyl.

Answer: B



- 23. Cleavage polyembryony is noticed in
 - A. Orchids
 - B. Casuarina
 - C. Balanophora

D. Syzgium
Answer: A
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24. Pick out the non - spermous seed
A. Wheat
B. Sunflower
C. Bean
D. Orchids
Answer: C
Watch Video Solution
25. The type of endosperm noticed in Hydrilla a seed is

A. Ruminate endosperm
B. Nuclear endosperm
C. Cellular endosperm
D. Helobial endosperm
Answer: D
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26. Which is not a part of mature seed ?
A. Funiculus
B. Testa and tegma
C. hilum
D. Chalaza
Answer: D
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- 27. Select the wrong statement (s) regarding cross pollination
- (a) Pollination depends on external agent and so it is certain.
- (b) New varieties are produced.
- (c) Continuous cross pollination leads to weaker progeny.
- (d) Germination capacity is highly declined.
 - A. a and d
 - B. b and c
 - C. a,b and d
 - D. a, c and d

Answer: D



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28. Which of the following characters does not exist in Ornithophilous

flowers?

B. b) Bright coloured C. c) Scented flowers D. d) Nectar is secreted in large **Answer: C Watch Video Solution** 29. Which of the following plant was introduced as a contaminant into India along with wheat? A. a) Parthenium hysterphorus B. b) Zea mays C. c) Rosa indica D. d) Mangifera indica

A. a) Huge sized flowers

Answer: A

30.is a carotenoid derivative of exine layer which provides resistance to pollen grains.



31. Common type of ovule found in majority of the plants

- A. Orthotropus
- B. Anatropous
- C. Campylotropus
- D. Amphitropous

Answer: B



32. Identify the incorrect statement about the Gram positive bacteria A. The stalk of the ovule is funiculus. B. Nucellus is composed of sclerenchymatous tissue. C. Basal region of the ovule is chalaza end. D. Micropyle is always oriented opposite to chalaza. Answer: B **Watch Video Solution** 33. Generally the pollen grains are liberated from anther at A. 2- celled stage B. 4- celled stage C. 6- celled stage D. 8- celled stage Answer: A

34. Assertion (A): Self - pollination is certain in cleistogamous flowers.

Reason (R): Flowers never open and not expose reproductive organs.

A. a) Both A and R are incorrect.

B. b) A is correct R is incorrect

C. c) R explains A.

D. d) Both A and R are correct . R is not a correct explanation for A

Answer: C



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35. Assertion (A): Entamophily is the most common type of pollination

Reason (R): Birds and animals brings out effective pollination.

A. a) Both A and R are incorrect.

- B. b) A is correct R is incorrect
- C. c) R explains A.
- D. d) Both A and R are correct . R is not a correct explanation for A

Answer: D



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36. Statement 1 : Primary sporogenous cell functions as megaspore mother cell.

Statement 2 : Megaspore mother cell undergoes mitotic division producing megaspores .

- A. Statement 1 is correct and statement 2 is incorrect
- B. Statement 1 is incorrect and Statement 2 is correct.
- C. Both the statements 1 and 2 correct.
- D. Both the statements 1 and 2 incorrect .

Answer: A



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37. Statement 1: Apomixis does not involve meiosis and syngamy.

Statement 2: The term Apomixis was introduced by Winkler.

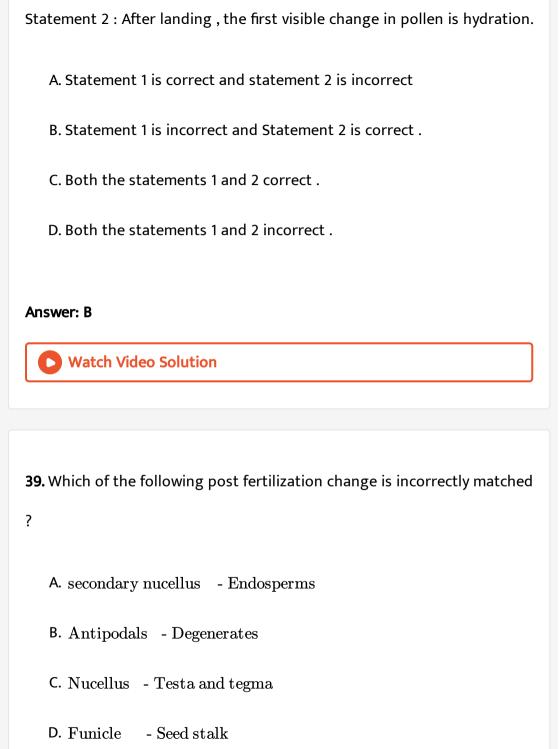
- A. a) Statement 1 is correct and statement 2 is incorrect
- B. b) Statement 1 is incorrect and Statement 2 is correct.
- C. c) Both the statements 1 and 2 correct.
- D. d) Both the statements 1 and 2 incorrect.

Answer: C



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38. Statement 1: The pollen grains are deposited on the receptive surface of style .



Answer: C Watch Video Solution 40. Indentify the parthenocarpic fruit A. Antropus B. Hemianatropus C. Campylotropus D. Amphitropous **Answer: D Watch Video Solution** A. 8 celled and 8 nucleated

- B. 7 celled and 8 nucleated C. 8 celled and 7 nucleated D. 7 celled and 8 nucleated Answer: B **Watch Video Solution** 42. Identify the type of ovule, where the nucellus acquires a horse - shoe shaped structure. A. a) Anatropous
- - B. b) Hemianatropous
 - C. c) Campylotropous
 - D. d) Amphitropous

Answer: D



- **43.** The egg aparatus is made up of
 - A. 1 egg cell and 2 antipodals
 - B. 1 egg cell and 2 polar nuclei
 - C. 1 egg cell and 1 secondary nuycleus
 - D. 1 egg cell and 2 synergids

Answer: D



- 44. Match the following:
- ${\rm (1) Hemian at ropus} \quad {\rm (i) \ hilum \ , \, micropyle \ and \ chalaza \ of \ ovule \ lie \ adjecent}$
- (2) Circintropus (ii) body of ovule is at right angles to funiculus
- (3) Campylotropus (iii) completed inverted ovule
- (4) Anatropus (iv) Elongated funiculus surrounds ovule
- A. a) 1 (iii) , 2- (i) , 3 (iv) , 4 (ii)
 - B. b)1 (ii) , 2- (iv) , 3 (i) , 4 (iii)

C. c) 1 - (iv), 2- (ii), 3 - (i), 4 - (iii)

D. d) 1 - (i), 2- (iii), 3 - (ii), 4 - (iv)

Answer: B



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45. What is triple fusion?

A. PEN

B. PEG

C. PVC

D. PPT

Answer: A



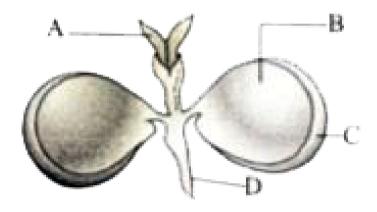
A. a) Pea , castor paddy
B. b) Paddy , Coconut , Groundnut
C. c) Beans , coconut , castor
D. d) Groundnut , pea , beans
Answer: D
Watch Video Solution
47. What is the edible part in Conconut?
A. Epicarp
B. Endosperm
C. Embryo
D. Mesocarp

46. Ex - albuminous seeds are

Answer: B

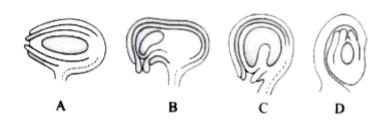


48. Observe the diagram and select the correct option mentioning the part A,B,C and D



- A. a) $\frac{A}{\text{Radicle}}$ $\frac{B}{\text{Cotyldedon}}$ $\frac{C}{\text{Testa}}$ Plumule
- B. b) $\frac{A}{\text{Plumule}}$ $\frac{B}{\text{Cotyldedon}}$ $\frac{C}{\text{Testa}}$ Radicle
- C. c) $\frac{A}{\text{cotyldedon}}$ $\frac{B}{\text{Testa}}$ $\frac{C}{\text{Plumule}}$ Radicle
- D. d) $\frac{A}{\text{Plumule}}$ $\frac{B}{\text{Radicle}}$ $\frac{C}{\text{Testa}}$ $\frac{D}{\text{cotyldedon}}$

49. Examine the figures and name the respective type of ovule.



DA. a) Campylotropus Amphitropus Circinotropus Anatropus

B. b)

Anatropus Hemianatropus Amphitropus Campylotropus

D

C. c)

BA D

Campylotropus Circinotropus Hemianatropus Anatropus

D. d)

 \boldsymbol{A} B

Hemianatropus Campylotropus Amphitropus Circinotropus

Answer: D

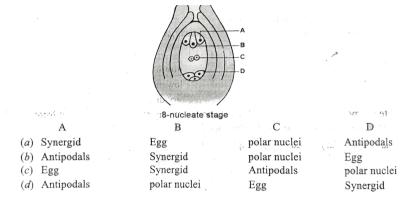
B

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50. Attractants and rewards are required for
A. a) Anemophily
B. b) Entamophily
C. c) Malacophily
D. d) Cheiroptrophily
An arrang D
Answer: B
Watch Video Solution
E1 Filiform apparatus is a special collular thickening which is seen in
51. Filiform apparatus is a special cellular thickening which is seen in
A. Antipodals
74741tipoddis
B. Polar nuclei

D. Synergids
Answer: D
Watch Video Solution
52. In anatropous ovule, the micropyle faces
A. a) Right side
B. b) Left side
C. c) Upward
D. d) Downward
Answer: D
Watch Video Solution

C. Nucellus

53. Observe the diagram and select the correct option mentioning the parts A,B,C and D.



- $A \qquad B \qquad C \qquad D$
- A. Synergid Egg polar nuclei Antipodals
- B. $\frac{A}{\text{Antipodals}}$ $\frac{B}{\text{Synergid}}$ $\frac{C}{\text{polar nuclei}}$ $\frac{D}{\text{Egg}}$
- $\mathsf{C}. \overset{A}{\mathsf{F}} \quad \overset{B}{\mathsf{G}} \qquad \overset{C}{\mathsf{G}} \qquad \overset{D}{\mathsf{G}}$
- Egg Synergid Antipodals polar nuclei
- D. $\frac{A}{\text{Antipodals}}$ $\frac{B}{\text{polar nuclei}}$ $\frac{C}{\text{Egg}}$ Synergid

Answer: A



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54. Identify the correct adaptation that checks autogamy

A. Homogamy B. Cleistogamy C. Herkogamy D. None of the above **Answer: C Watch Video Solution** 55. In monoecius plants, A. Both autogamy and geitonogamy are prevented B. Both autogamy and geitonogamy are takes place C. Autogamy takes place prventing geitonogamy D. Autogamy is prevented whereas geitonogamy takes place. Answer: D **Watch Video Solution**

56. Antipodals are located atof embryo sac.



Watch Video Solution

57. Identify the correct sequence of anther wall layers from periphery towards core part.

- A. Epidermis $\;
 ightarrow\;$ endothelium $\;
 ightarrow\;$ stomium $\;
 ightarrow\;$ tapetum
- B. Epidermis $\,
 ightarrow \,$ middle layer $\,
 ightarrow \,$ endothelium $\,
 ightarrow \,$ endothelium
- C. Epidermis $\, o \,$ endothelium $\, o \,$ middle layers $\, o \,$ tapetum
- D. Epidermis ightarrow endothelium ightarrow endothecium ightarrow tapetum

Answer: C



Answer: C



59. Pick out the mismatched

- A. a) Entamophily -Insects
- B. b) Malacophily -Mammals
- C. c) Cheiropterophily -Bats
- D. d) Ornithophily -Birds

Answer: B



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60. Which is the most common type of style seen in monocots?

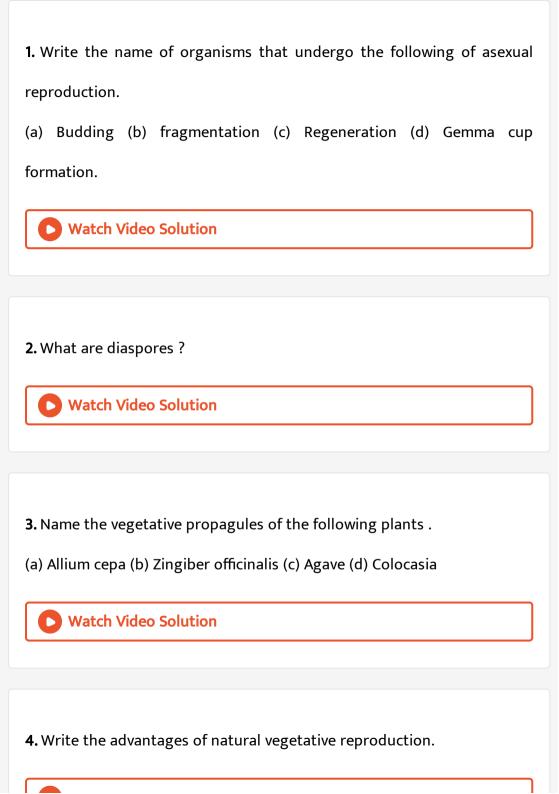
- A. Open type
- B. Closed type
- C. Solid type
- D. Half closed type

Answer: A



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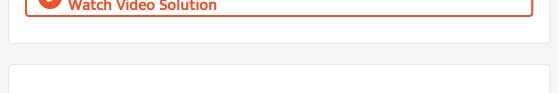
Additional Questions 2 Mark Questios



Watch Video Solution
5. Mention the conventional propagation techniques.
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6 What do you man by tarms 'stock' and 'ssian' in grafting tachnique?
6. What do you mean by terms 'stock' and 'scion' in grafting technique?
Watch Video Calution
Watch Video Solution
7. Write the types of grafting,
Watch Video Solution
8. What is meant by Totipotency?
Watch Video Solution

9. What does the term micropropagation refer to ?
Watch Video Solution
10. Name the whorls of a flower .
Watch Video Solution
11. Write any four valid points on Androecium
Watch Video Solution
12. What is pollinium?
Watch Video Solution
13. Give a comparative account on the wall layers of Anther.

Watch Video Solution
14. Tapetum is dual in origin - Justify .
Watch Video Solution
15. Name the two types of tapetum. Mention any one function of tapetum.
Watch Video Solution
16. Differentiate between Exine and Intine of pollen grain.
Watch Video Solution
17. What are the chemical components that make up the wall layers of pollen grains ?



18. Draw and label the structure of a typical pollen grain.



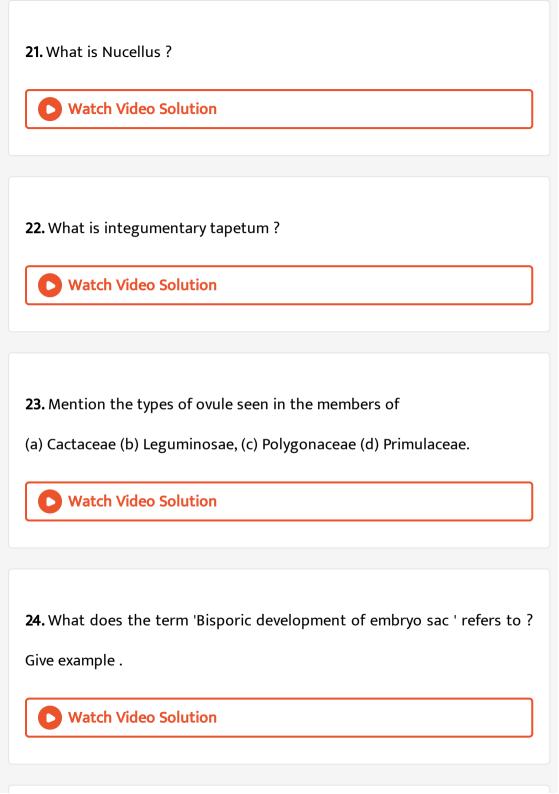
19. At which cellular stage , does the pollen grains are usually liberated from the anther

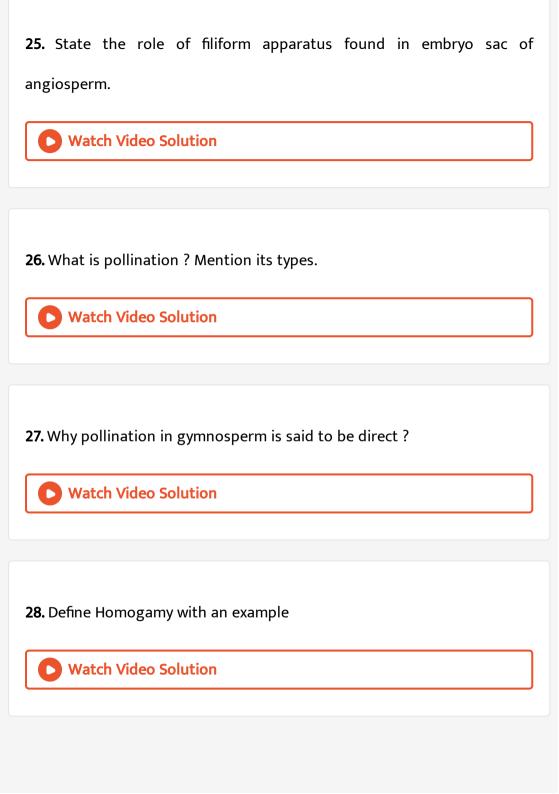


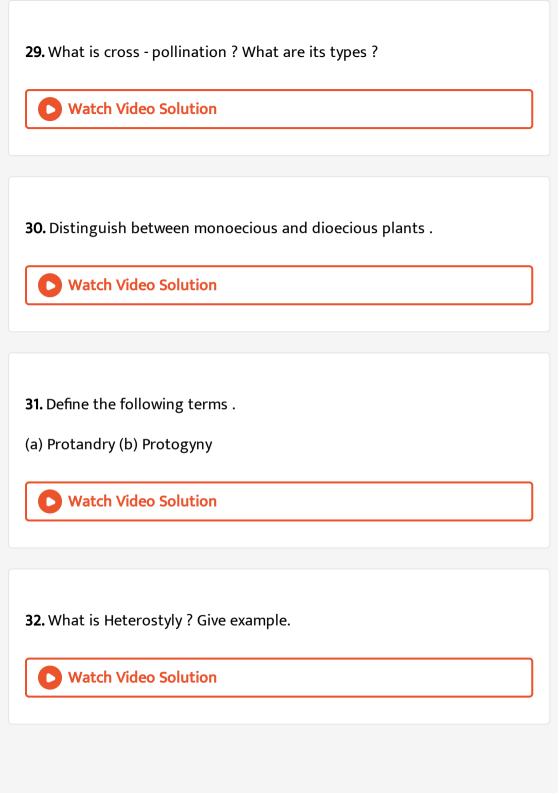
20. Write the equivalent botanical terms for the following words / sentences.

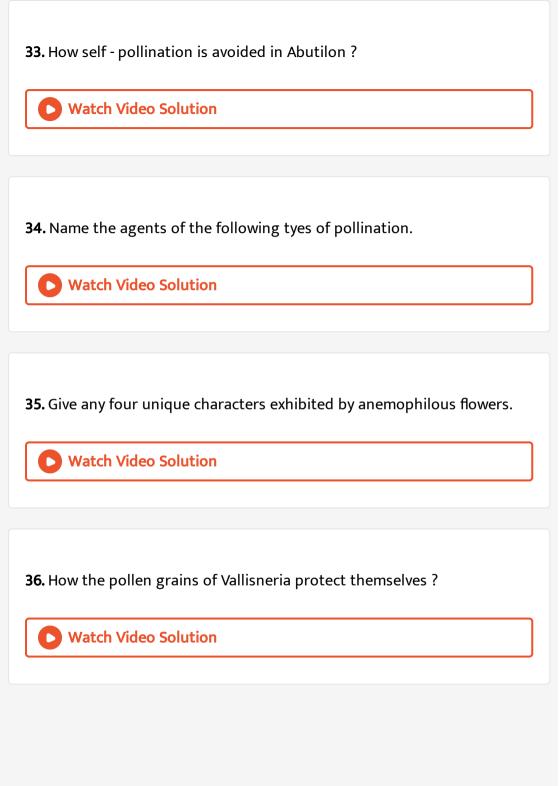
- (a) Landing platform of pollen (b) Ovarian cavity
- (c) Megasporangium (d) Basal swollen part of pistill

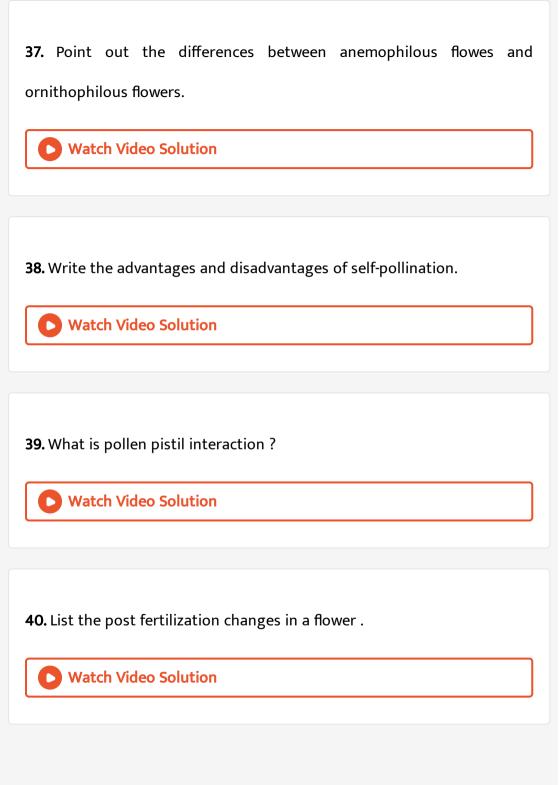












41. What is perisperm ?
Watch Video Solution
42. What happens to the following floral parts , after the fertilization
process ?
(a) Ovary (b) Secondary nucleus (c) Outer integument of ovule (d) Funicle
Watch Video Solution
43. What is ploidy?
Watch Video Solution
44. Coconut is an albmunious seed why?
Watch Video Solution

45. Name the types of endosperm based on development.
Watch Video Solution
46. What is scutellum ?
Watch Video Solution
47. What is cloeoptile and coleorhiza ?
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48. Who coined the term Apomixis ? Define it.
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49. What are parthenocarpic fruits?

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Additional Questions 3 Mark Questios					
1. How tongue grafting differs from wedge grafting?					
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3. Where the stomium is located? What is its role?

2. List any three advantages of micropropagation.



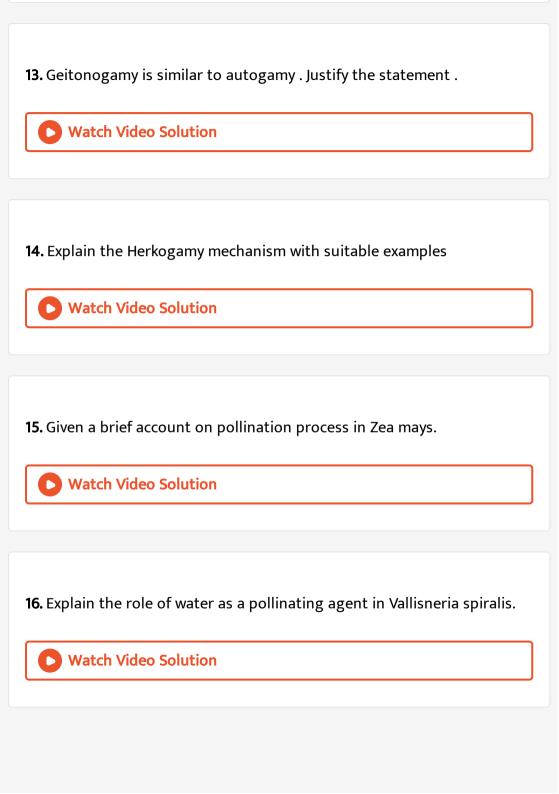
4. Briefly explain about the types of tapetum.

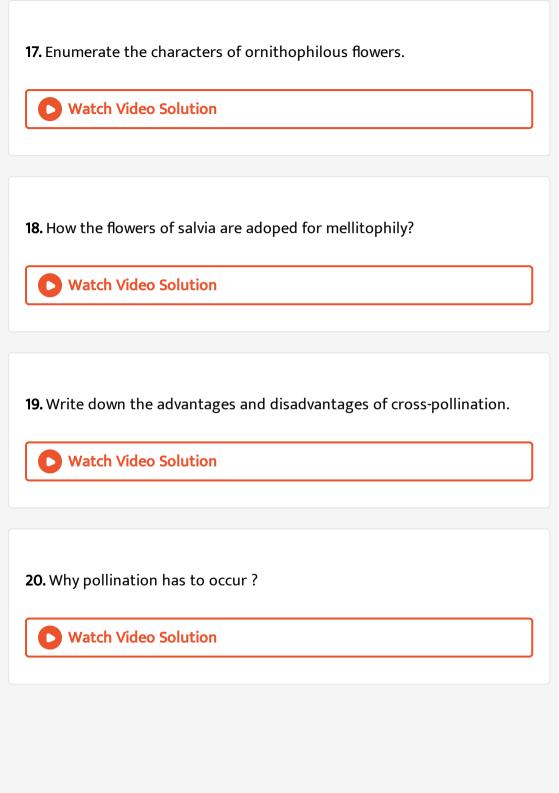
Watch Video Solution							
5. Enumerate the functions of tapetum.							
Watch Video Solution							
6. State the significance of sporopollenin.							
Watch Video Solution							
7. What do you know about bee pollen ?							
Watch Video Solution							
8. Write a short note on pollen kitt.							
Watch Video Solution							

9. Draw and label the structure of a mature embryo sac of angiosperms.
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10. How many synergid cells are there in an mature embryo sac . Mention
any two major role of synergids.
Watch Video Solution
11. A mature female gametophyte (embryo sac/egg apparatus) of angiosperms is 7 celled with 8 nucleus . Name the individual cells and mention their count.
Watch Video Solution

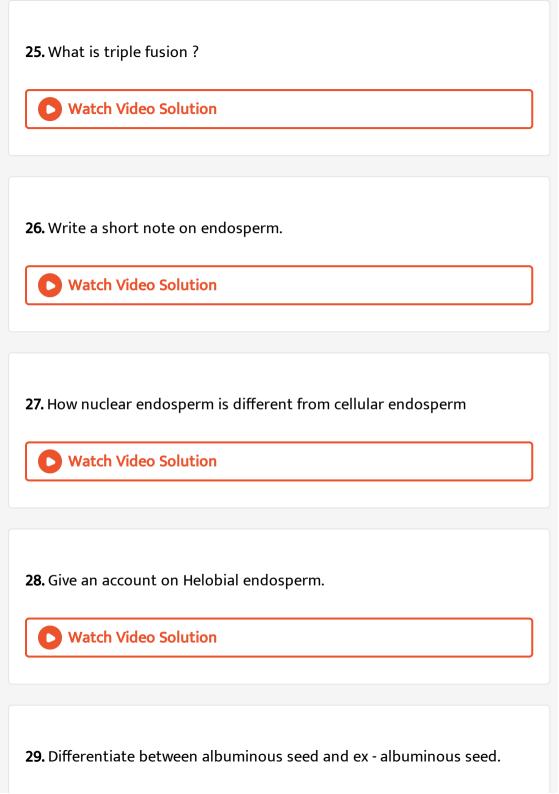
12. Differentiate between chasmogamy and cleistogamy.







21. How the pollen germination and compatibility is regulated by stigma
of Gynoecium ?
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22. Give a brief account on solid style.
Watch Video Solution
23. Exaplain the types of entry of pollen tube into the ovule.
Watch Video Solution
24. What is the fate of pollen tube after reaching the embryo sac?
Watch Video Solution



Watch Video Solution
30. Draw and label the structure of nuclear endosperm and Helobial
endosperm.
Watch Video Solution
31. Point out the function of endosperm.
Watch Video Solution
32. What are the components of mature dicot embryo.
Watch Video Solution
33. What is apospory ?
Watch Video Solution

Additional Questions 5 Mark Questios

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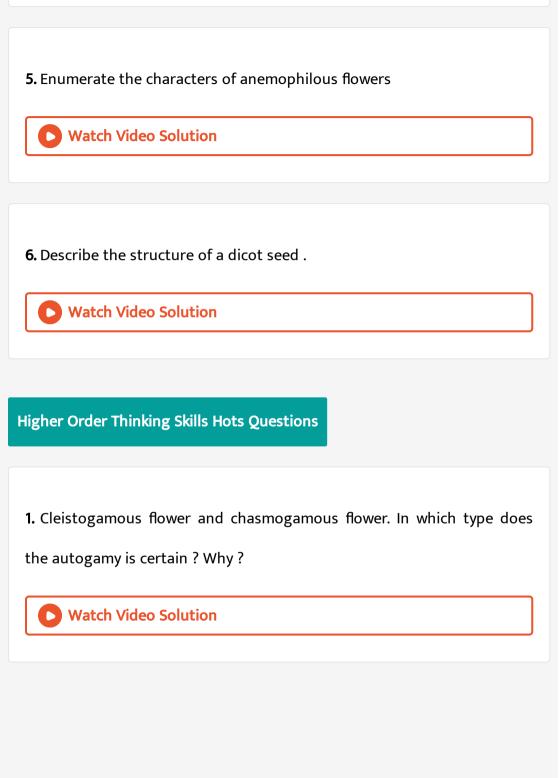
2. Explain the development process of male gametophyte.

1 Give a comparative account on the wall layers of Anther

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- **3.** Explain any five types of angiospermic ovules .
 - Watch Video Solution

- **4.** Describe the development of monrospric embryo sac.
 - Watch Video Solution



2. Position of essential whorls and inhibition autogamy in Gloriosa superba - comment .



3. Anemophilous flowers produce abundant pollen grains . Give reason.



- **4.** Observe the picture and answer the questions.
- (a) Label the part A
- (b) Name the types of vegetative propagule

Give one example for such type of vegetative propagule.

*



5. Arrange the following events in a proper sequence. Embryogenesis, Zygote formation, Syngamy, Gametogenesis **Watch Video Solution** 6. Name the process through which microspore tetrads are formed. What would be the ploidy of the cells of tetrad? **Watch Video Solution** 7. Anemophilous flowers are colourless and non - scented . What may be the reason? **Watch Video Solution** 8. If you break open the coconut fruit, we can observe a fluid part and the white kernel.



9. Cite one common feature and one contrast feature shared between apomixis and parthenocarpy.



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