BIOLOGY

BOOKS - BETTER CHOICE PUBLICATION

SEXUAL REPRODUCTION IN FLOWERING PLANTS

Very Short Answer Type Questions

1. Give the term of pollination by bats.

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2. What is malacophily?

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3. Explain the following term : Cryopreservation.

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4. Define external fertilisation. Mention its disadvantages.

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5. Differentiate between Parthenocarpy and Parthenogenesis. Give one example of each.

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6. Differentiate epigeal germination and hypogeal germination.

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7. What do you mean by gun powder mechanism in Anthers?

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8. Differentiate epigeal germination and hypogeal germination.

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9. Define parthenocarpy.

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10. Name the parts of angiospermic flower in which development of male and female

gametophyte take place.

11. Why apple is called false fruit ?

12. Which part of the flower forms the fruit.

13. Define Palynology.

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14. Define Geitonogamy.

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15. How many pollen sacs are present in bithecous anthers?

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16. Study of pollen grains is called

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17. Give the term for pollination by insects.

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18. Give the term for pollination by wind.

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19. Give the term for pollination by water.

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20. What is the function of micropyle in an angiospermic ovule ?

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21. Define mesogamy.

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22. What is the function of nucellus in an angiospermic ovule ?

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23. Define Chalazogamy.

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24. What is the function of integuments in an angiospermic ovule?

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25. Define porogamy.

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26. Define Chiropterophily.

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27. Give the term for the entry of pollen tube into the ovule through micropyle.

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28. Define Ornithophily.

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29. Give the term for the entry of pollen tube into the ovule through Integuments.

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30. Define hydrophily.

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31. Give the term for the entry of pollen tube into the ovule through the chalaza.

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32. Discuss Bagasse.

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Short Answer Type Questions

1. Give advantages of self pollination.

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2. What do you understand by Double Fertilization? Give its significance.

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3. Differentiate between Hypogeal and Epigeal Germination.

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4. Define triple-fusion. What product is formed from this fusion? What is the ultimate fate of this fusion product?

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5. What is Apomixis ? What is its importance ?

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6. Define Cleistogamy. What type of pollination occur in Cleistogamous flowers ?

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7. Whatis the need and significance of pollination in plants ?

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8. What is seed dormancy?

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9. What is tapetum ? What is its function ?

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10. Why is the fertilization in angiosperms called double fertilization ?

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11. Give advantages of cross-pollination.

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12. How does endosperm of angiosperms become triploid ?

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13. What is the significance of double fertilization ?

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14. What is triple fusion ? Where and how does it take place ? Name nuclei involved in triple fusion.

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15. What is entomophily ? Write its example.

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16. Why is the process of fertilization in a flowering plant referred to as double fertilization ?

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17. What is ornithophily ? Write two characteristics.

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18. What is the fate of secondary nucleus and integument after fertilization?

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19. Write any two differences between apocarpous and syncarpous ovary.

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20. Draw a labelled diagram of the longitudinal section of a maize grain to show th structure of mature embryo.

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21. Draw a labelled diagram of the longitudinal section of an anatropous ovule with two integuments.

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22. Draw a labelled diagam of the longitudinal section of pistal showing pollen germination.

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23. Write down six characters of wind pollinated flowers.

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24. What is double fertilization?

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25. Describe the structure of Pollen grain and process of its germination.

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26. Draw a well labelled diagram of L.S. of orthotropus ovule.

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27. Define Porogamy.

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28. Define Zoophily.

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29. Define mesogamy.

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30. Give the characters of flowers pollinated by Birds.

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31. Define Palynology.

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32. Define Chalazogamy.

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33. Define Germ furrow.

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34. Define parthenocarpy.

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35. Define Endospermic seed.

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36. Define Geitonogamy.

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37. Write a short note on endosperm formed in an angiosperm.

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38. Write a short note on structure of embryo sac in an angiospermic ovule.

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39. Write a short note on structure of an ovule of an angiospermic plant.

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Long Answer Type Questions

1. Draw a labelled diagram of the longitudinal section of a pistil showing pollen germination.

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2. How do roots take part in vegatative propagation?

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3. Write six differences between Self Pollination and Cross Pollination.

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4. What do you understand by double fertilization?

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5. Describe the process of development of female gametophyte and illustrate the answer with suitable diagrams.

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6. Describe the development of male gametophyte or pollen in Angiosperms with the help of suitable diagrams.

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7. What is seed germination? Describe the various external and internal factors required for it.

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8. Describe various factors which favour cross pollination.

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9. Describe the various steps involved in seed germination.

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10. Discuss the development of dicot embryo with suitable diagram.

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11. Higher organisms have resorted to sexual reproduction in spite of its complexity. Why?

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12. Explain why meiosis and gametogenesis are always interlinked?

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13. Draw a well labelled diagram of T.S. of mature anther of an angiospermic flower.

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14. What is triple fusion ? Where and how does it take place ? Name nuclei involved in triple fusion.

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15. Write four differences between dicot and monocot seeds.

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16. Give six differences between wind pollinated flowers and insect pollinated flowers.

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17. Why is apple called a false fruit? Which part of flower form its fruit?

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18. Write four characteristics of wind pollinated flowers.

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19. Write down two advantages and two disadvantages of self-pollination.

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20. Write a note on development of Endosperm.

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21. Explain three types of Endosperm with examples.

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22. What do you understand by the development of monocoat embryo. Support the answer with suitable diagrams.

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23. What do you mean by monosporic development of female gametophyte?

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24. With a neat labelled diagram, explain 7 celled 8 nucleate mature female gametophyte.

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25. What is bithecous anther ?

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26. Write about the structure of microsporangium with suitable diagram

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27. Write about microsporogenesis leading to formation of microspores.

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28. What is precocious germination ?

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29. Explain the development of male gametophyte with suitable diagrams.

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30. What is self-incompatibility ?

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31. Why does self-incompatibility not lead to seed formation in self-incompatible species ?

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32. Describe the structure of maize grain.

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33. Discuss "seeds as physiological enigma."

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34. DrawT.S. anther of an angiospermic flower

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35. What is self pollination ? Mention the types of self pollination.

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36. Explain the development of dicot embryo giving suitable example.

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37. Name various agencies of pollination.

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38. Explain:

Diagram of L.S. of generalized flower.

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39. Draw a well labelled diagram of T.S. of anther

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Most Expected Questions

1. How do pollen grains withstand high temperature and strong acids?

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2. What is perisperm?

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3. What is another name of female gametophyte?

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4. Define emasculation. How it is done ?

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5. What will be the advantage of transforming hybrid into apomictic form?

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6. Draw labelled diagram of a mature pollen grain.

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7. How do plants produce seeds through apomixis? Explain with the help of an example.

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8. In the adjacent figure of a typical dicot embryo, label the part (1), (2) and (3). State the function of each of the labelled part.

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9. The meiocyte of maize has 20 chromosomes. Write the number of chromosomes in its endosperm and egg cell.

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10. Differentiate between microsporogenesis and megasporogenesis. Which type of cell division occurs during these events? Name the structures formed at the end of these two events.

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11. What are chasmogamous flowers? Can cross-pollination occur in cleistogamous flowers? Give reasons for your answer.

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12. What is bagging technique? How is it useful in plant breeding programmes?

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13. What is Apomixis ? What is its importance ?

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14. LS of a maize grain is given below. Label the parts A, B, C and D in it.

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15. What are true, false and parthenocarpic fruits?

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16. Most zygotes in angiosperms divide only after certain amount of endosperm is formed. Give reason why?

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17. Groundnut seeds are exalbuminous and castor. seeds are albuminous. Give reason why?

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18. Micropyle remains as a small pore in the seed. Give reason why?

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19. Integuments of an ovule harden and the water content is highly reduced as the seed matures. Give reason why?

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20. Apple and cashew nuts are not called true fruits. Give reason why?

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