



INDIAN SCHOOL NIZWA - WORKSHEET

BIOLOGY

CH-2- REPRODUCTION IN FLOWERING PLANTS(BOARD QUESTIONS)

Name: _____

Date: _____

Class: XII-A

1. Name the part of the flower which the tassels of the corn- cob represent.
2. Banana is a true fruit but it is a parthenocarpic fruit also. Give a reason
3. Name the group of organisms that produce non motile gametes. How do they reach the female gamete for fertilization?
4. Name the phenomenon and the cell responsible for the development of a new individual without fertilization as seen in honey bees.
5. Banana produces fruits but is propagated by vegetative means. Why is it so?
6. Papaver and Michelia both have multicarpellary ovaries. How do they differ from each other?
7. How many pollen grains and ovules are likely to be formed in the anther and in the ovary of an angiosperm bearing 25 microspore mother cells and 25 megaspore mother cells respectively?
8. How many megasporangia are present in a typical anther of an angiosperm?
9. How do flowers of vallisneria get pollinated?
10. How many microspore cells would be required to produce one hundred pollen grains in a pollen sac? And why?
11. Name the type of pollination as a result of which genetically different types of pollen grains of the same species land on the stigma.

Two marks question

12. The following statements seem to describe the water pollinated submerged plants. Which one is incorrect? I) the flowers do not produce nectar ii) the pollen grains have mucilaginous covering iii) the brightly coloured female flowers have long



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stalk to reach the surface.

13. The meiocyte of rice has 24 chromosomes. How many chromosomes are present in its endosperm?
14. Name the units of vegetative propagation in water hyacinth. Explain giving reasons why it has become the most invasive aquatic weed?
15. Why are mosses and liverworts unable to complete their sexual mode of reproduction in dry conditions?
16. Write the importance of bagging in unisexual flowers in crop improvement programme.
17. Why is emasculation in bisexual flower necessary in crop improvement programme?
18. Mention the similarity between autogamy and geitonogamy? How does geitonogamy differ from xenogamy.
19. Name the product of fertilization that forms the kernel of coconut. How does the kernel differ from the coconut water?
20. A list of three flowering plants is given below. Which one out of them are i) monoecious ii) bearing pistillate flowers? Date palm, cucurbits, pea
21. Why should a bisexual flower be emasculated and bagged prior to artificial pollination?
22. Why are papaya and date palm said to be dioecious whereas cucurbits and coconut palms monoecious, in spite of all of them bearing unisexual flowers?
23. Explain giving two reasons why pollen grains can be the best preserved fossils.

3 marks questions

24. Draw a sectional view of apple and label the different parts of the ovary in it. Fruits develop from an ovary then why is apple referred to as a false fruit?
25. Why are angiosperm anthers dithecous? Describe the structure of its microsporangium.
26. Describe the endosperm development of coconut. Why is tender coconut considered as a healthy source of nutrition?
27. How does a farmer use dormancy of seeds to his advantage? What advantages a



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seed provides to a plant ?

5 marks questions

28. Draw and label LS of pistil showing pollen tube entering into the embryo sac
29. Describe the process of megasporogenesis upto fully developed embryo sac formation in an angiosperm.
30. State what is apomixis, Write its significance. How can it be commercially used ?
31. In which type of flowers and at what stage are the two processes of emasculation and bagging carried out.



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