Vidya Bhawan Balika Vidyapeeth Lakhisarai

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Class 12th

Sub. Biology

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## **Based on NCERT patterns**

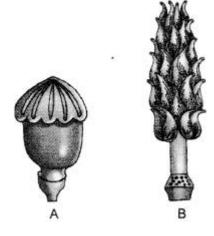
## Questions practice for PA 1

- 1. A bilobed dithecous anther has 100 microspore mother cells per microsporangium. How many male gametophytes can this anther produce?
- 2. What are germ pores?
- 3. Give an example of a plant which came into India as a contaminant and is a cause of pollen allergy.
- 4. Mention two environmental factors that affect pollen viability.
- 5. How are different varieties of pollen grains stored for long period of time in pollen banks?

or

Mention any one application of a pollen bank

6.



These pictures show the gynoecium of (A) Papaver and (B) Michelia flowers. Write the difference in the structure of their ovaries.

- 7. What represents the (a) basal part and (b) female gametophyte of the ovule?
- 8. How many megaspore mother cell(s) become(s) differentiated in an ovule?
- 9. When does cell wall formation start, in the organisation of the embryo sac?
- 10. Of the eight nuclei formed in the em bryo sac, six become organised into cells.
  - (a) What term is given to the other two nuclei?
  - (b) Name the cell in which they are present.
- 11. What is filiform apparatus?
- 12. State the function of filiform apparatus found in mature embryo sac of an angiosperm.
- 13. Describe the structure of the cell (s) that guide (s) the pollen tube to enter the embryo sac.
- 14. State the significance of pollination.
- 15. Why are cleistogamous flowers invariably autogamous?
- 16. How is it possible in Oxalis and Viola plants to produce assured seed-sets even in the absence of pollinators?

Or

Pea flowers produce assured seed-sets. Give a reason.

- 17. Give the technical term for the type of pollination
  - (a) which ensures genetic recombination.
  - (b) between different flowers of the same plant
- 18. The following statements describe the wind-pollinated plants. Which one of these statements is incorrect? (a) The pollen grains are sticky.
  - (b) Stamens are well-exposed.
  - (c) Flowers often have single ovule.

19.	Mention the pollinating agent of an inflorescence of small dull-coloured flowers with well-exposed stamens and large feathery stigmas. Give any one characteristic of pollen grains produced by such flowers.