

Subject: Biology Total Marks: 25 BOARD QUESTION PAPER : XII Time: 1 Hr. Class Ch. 1. Reproduction in Lower and Higher Plants Section A Q.1.: Select & write the most appropriate answer from the given alternatives for each sub-question. In porogamy, the pollen tube enters into the ovule through..... i) a) Funicle b)Integument c)Micropyle d)Chalaza ii) Embryo sac is..... Microsporangium Microgametophyte b) a) Megagametophyte d) Megasporangium To produce 500 pollen grains how many microspore mother cells are required? iii) a) 500 b)125 d)1000 c)250In ovule, meiosis occurs in a) Integument b) Nucellus c) Megaspore d) Megaspore mother cell Q.2.: Write the answer in ONE sentence: 2 i) What is Ornithophily? Define: Flower. ii) Section B Attempt any THREE. 6 Q.3.: Draw well labelled diagram of Pollen grain. O.4.: Draw well labelled diagram of Embryo Sac. Q.5.: Pollination and seeds formation is very crucial for fruit formation. Justify the statement. **O.6**: How polyembryony can be commercially exploited? Section C Attempt any THREE. 9 Q.7: Explain types of pollinations with example. Q.8: Describe the development of female gametophyte in angiosperm. Q.9: Sketch and label histological structure of Anther.

Q.10: Incompatibility is a natural barrier in the fusion of gametes. How will you explain this statement?

Section D

: Answer the following: (ANY 1)

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- **Q.11:** With a neat labelled diagram describe the structure of an anatropous ovule.
- Q.12: What is double fertilization? Explain the process of double fertilization.

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