



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

SEXUAL REPRODUCTION IN FLOWERING PLANTS

Exercises

1. Name the parts of an angiosperm flower in which development of male and female

gametophyte take place.



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2. 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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3. Arrange the following terms in the correct developmental sequence: Pollen grain, sporogenous tissue, microspore tetrad, pollen mother cell, male gametes.



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4. With a neat, labelled diagram, describe the parts of a typical angiosperm ovule.



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5. What is meant by monosporic development of female gametophyte?



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6. Explain the acidic nature of acetylenic hydrogen.



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



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8. Mention two strategies evolved to prevent self-pollination in flowers.



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9. What is self-incompatibility? Why does self-pollination not lead to seed formation in self-incompatible species?



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10. What is bagging technique? How is it useful in a plant breeding programme?



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



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12. Why do you think the zygote is dormant for sometime in a fertilised ovule?



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13. Differentiate between:

(a) Hypocotyl and epicotyl,

(b) Coleoptile and coleorrhiza,

(c) Integument and testa,

(d) Perisperm and pericarp.



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14. Why is apple called a false fruit? Which part(s) of the flower forms the fruit?



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15. What is meant by emasculation? When and why does a plant breeder employ this technique?



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16. If one can induce parthenocarpy through the application of growth substances, which fruits would you select to induce parthenocarpy and why?



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17. Explain the role of tapetum in the formation pollen-grain wall.



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18. What is apomixis and what is its importance?



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