BIOLOGY

NCERT - NCERT BIOLOGY(ENGLISH)

SEXUAL REPRODUCTION IN FLOWERING PLANTS

Sexual Reproduction In Flowering Plants

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 occur during these events ? Name the structure formed at the end of these two events

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3. Arrange the following terms in the correct development 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. With a neat diagram explain the 7-celled, 8-nucleate nature of the female gametophyte.

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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 fertilized ovule?

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13. Differentiate between:

(a) Hypocotyl and epicotyl,

(b) Coleoptile and coleorhiza,

(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 of pollen-grain wall .

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18. What is apomixis and what is its importance ?

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