

Class: 12
Subject: Biology
Topic: Sexual reproduction in flowering plant
No. of Questions: 25

- Q1. Double fertilization process meSol.
- a) Fusion of one male gamete nucleus with egg nucleus while fusion of other male gamete nucleus with secondary nucleus
 - b) fusion of male gamete nucleus with secondary nucleus
 - c) Fusion of two polar nuclei with each other
 - d) fusion of male gamete nucleus with egg nucleus
- Q2. Identify the most closely related terms in the given sets
- a) megasporangium, megaspore, egg, ovule
 - b) microsporangium, microspore, egg, ovary
 - c) megasporangium, megaspore, pollen, ovule
 - d) microsporangium, microspore, carpel, ovary
- Q3. Mention some of the spores of asexual reproduction.
- Q4. What is meant by monosporic development of female gametophyte?
- Q5. Name the parts of an angiosperm flower in which development of male and female gametophyte take place.
- Q6. 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.

- Q7. What are chasmogamous flowers? Can cross-pollination occur in cleistogamous flowers? Give reasons for your Sol.wer.
- Q8. Mention two strategies evolved to prevent self-pollination in flowers.
- Q9. What is self-incompatibility? Why does self-pollination not lead to seed formation in self-incompatible species?
- Q10. What is meant by monosporic development of female gametophyte?
- Q11. What is bagging technique? How is it useful in a plant breeding programme?
- Q12. What is triple fusion? Where and how does it take place? Name the nuclei involved in triple fusion.
- Q13. Why do you think the zygote is dormant for some time in a fertilized ovule?
- Q14. Why is apple called a false fruit? Which part(s) of the flower forms the fruit?
- Q15. Explain the role of tapetum in the formation pollen-grain wall.
- Q16. If one can induce parthenocarpy through the application of growth substances, which fruits would you select to induce parthenocarpy and why?
- Q17. What is apomixis and what is its importance?
- Q18. Explain oviparous and viviparous animals.

- Q19. Name any one animal in which self fertilization occurs
- Q20. Make a note on artificial hybridization.
- Q21. In a mature ovule, if hilum is close to micropyle, then the ovule is called:
- a) Orthotropous
 - b) Anatropous
 - c) Hemitropous
 - d) Campylotropous
- Q22. Tapetum layer around the pollen sac is meant for :
- a) Dehiscence
 - b) Protection
 - c) Fusion
 - d) Nutrition
- Q23. Formation of gametophyte directly from sporophyte without meiosis is
- a) apospory
 - b) apogamy
 - c) parthenogenesis
 - d) amphimixis.

Q24. Male gametophyte of angiosperms/monocots is

- (a) microsporangium
- (b) nucellus
- (c) microspore
- (d) stamen.

Q25. Double fertilization is characteristic of which category of plants?

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