



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 11

Class: XII

Sub: Biological science

Date: 11.06.2020

Topic: Sexual reproduction in flowering plants (part 7) Apomixis and Parthenogenesis

F.M. : 15

Choose the correct option:

(1x15=15)

1. The phenomenon of asexual reproduction which mimics sexual reproduction :-
a) Apoptosis b) Amphimixis c) Apomixis d) Apogenesis
Answer : Apomixis (c)
2. The following is a type of Apomixis :-
a) Apogamy b) Apospory c) Diplospory d) All of these
Answer : All of these (d)
3. The formation of embryo sac takes place from synergids or antipodal cells in :-
a) Apospory b) Apogamy c) Haploid parthenogenesis d) Diplospory
Answer : Apogamy (b)
4. The embryo formed in apogamy is _____ nature.
a) Diploid b) Diploid and sterile c) Haploid and fertile d) Haploid and sterile
Answer : Haploid and sterile (d)
5. The _____ is formed from any cell of the sporophyte is in apospory.
a) Embryo sac b) Embryo c) Embryo sac and embryo both d) Sporoangium
Answer : Embryo sac (a)
6. The formation of embryo from egg without the act of fertilization is called :-
a) Haploid androgenesis b) Apospory c) Haploid parthenogenesis d) Apogamy
Answer : Haploid parthenogenesis (c)
7. On the basis of occurrence apomixis is of the following types :-
a) Recurrent b) Non-recurrent c) Sporophytic Budding d) All of these
Answer : All of these (d)
8. The recurrent type of apomixis results in _____ type of plants.
a) Haploid and sterile b) Haploid and fertile c) Diploid and sterile d) Diploid and fertile
Answer : Diploid and fertile (d)
9. The phenomenon in which embryo sac develops from Megaspore mother cell without Meiosis :-
a) Diplospory b) Apospory c) Apogamy d) Polyembryony
Answer : Diplospory (a)

10. Embryo develops directly from nucellus or integuments :-
a) Diplospory b) Apospory c) Apogamy d) Sporophytic Budding

Answer :Sporophytic Budding (d)

11. Adventitious polyembryony takes place in :-
a) Citrus b) Mango c) *Opuntia* d) All of these

Answer : All of these (d)

12. The type of polyembryony where many eggs are fertilized to form embryos is:-
a) Adventive Polyembryony b) Cleavage polyembryony c) Simple polyembryony d) None of these

Answer : Simple polyembryony (c)

13. The type of polyembryony where the multiple embryos are formed due to splitting of the embryo in the initial phase of embryogenesis is called polyembryony. :-
a) Cleavage b) Adventive c) Sporophytic budding d) Simple

Answer :Cleavage (a)

14. Cleavage polyembryony is common in :-
a) Citrus b) Gymnosperms c) Mango d) Lilies

Answer : Gymnosperms (b)

15. When pollen grain forms the embryo it is known as _____.
a) Haploid culture b) Haploid parthenogenesis c) Haploid androgenesis d) Apospory

Answer : Haploid androgenesis (c)

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