



**ST. LAWRENCE HIGH SCHOOL**



**A JESUIT CHRISTIAN MINORITY INSTITUTION**

**SOLUTIONS – 08**

**Class: XII**

**Sub: Biological science**

**Date: 08.06.2020**

**Topic: Sexual reproduction in flowering plants (part 4) fertilization and endosperm formation**

**F.M. : 15**

**Choose the correct option:**

**(1x15=15)**

1. When pollen grain is discharged on the stigma it consists of following :-  
a) Pollen nucleus b) Generative nucleus c) Tube nucleus d) Generative and tube nucleus  
**Answer :Generative and tube nucleus (d)**
2. What events take place when pollen grain is discharged on the stigma :-  
a) Pollen grain absorb water and swells up b) Pollen tube is produced c) Pollen grain secretes cutinase to digest cutin and make way d) All of these  
**Answer : All of these (d)**
3. The movement of pollen tube into the style is called \_\_\_\_\_ response.  
a) Chemotropic b) Chemonastic c) Chemotactic d) Chemical  
**Answer :Chemotactic (c)**
4. The pollen tube may enter the ovule from the following route :-  
a) Micropyle b) Chalaza c) Integamets d) All of these  
**Answer : All of these (d)**
5. The entry of the pollen tube is the micropylar route is called:-  
a) Porogamy b) Chalazogamy c) Mesogamy d) Homogamy  
**Answer :Porogamy (a)**
6. On entry of egg apparatus the \_\_\_\_\_ guides the pollen tube upto the egg.  
a) Antipodal cell b) Integuments c) Filiform apparatus of synergids d) The egg itself  
**Answer : Filiform apparatus of synergids (c)**
7. The total number of gametes produced after the generative nucleus divides :-  
a) One b) Two c) Three d) Four  
**Answer : Two (b)**
8. The fusion of male gamete with egg is called:-  
a) Porogamy b) Syngamy c) Fertilization d) Both (b) and (c)  
**Answer : Both (b) and (c) (d)**

9. The fusion of second gamete with ..... is called triple fusion:-  
a) Secondary nucleus b) Polar nucleus c) Synergids d) Antipodal cells  
**Answer :Secondary nucleus (a)**
10. The Double fertilization includes :-  
a) Syngamy b) Triple fusion c) Fusion of synergid and male gamete d) Syngamy and triple fusion  
**Answer :Syngamy and triple fusion (d)**
11. The example of endospermic seeds are /is :-  
a) Beans b) Maize c) Peas d) All of these  
**Answer : Maize (b)**
12. The endosperm is \_\_\_\_\_ in nature.  
a) Haploid b) Diploid c) Triploid d) Polyploid  
**Answer : Triploid (c)**
13. The following is not a type of endosperm.  
a) Cellular b) Nuclear c) Helobial d) Suspensor  
**Answer : Suspensor (d)**
14. The liquid syncytium is the other name for :-  
a) Endosperm of Maize b) Cellular endosperm of *Cassia* c) Nuclear endosperm of coconut d) Nuclear endosperm of *Arachis*  
**Answer : Nuclear endosperm of coconut (c)**
15. The type endosperm where cell division is not followed by immediate cell wall formation :-  
a) Helobial b) Nuclear c) Cellular d) All of these  
**Answer :Nuclear (b)**

Shaista Ahmed