



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 06

Class: XII

Sub: Biological science

Date: 12.07.2021

Topic: Ch 2 (part 3) Fertilization and Post fertilization changes

F.M. : 15

Choose the correct option:

(1x15=15)

1. 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)

2. The movement of pollen tube into the style is called _____ response.
a) Chemotropic b) Chemonastic c) Chemotactic d) Chemical

Answer : Chemotactic (c)

3. The entry of the pollen tube in the micropylar route is called:-
a) Porogamy b) Chalazogamy c) Mesogamy d) Homogamy

Answer : Porogamy (a)

4. 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)

5. 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)

6. 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)

7. The endosperm is _____ in nature.
a) Haploid b) Diploid c) Triploid d) Polyploid

Answer : Triploid (c)

8. 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)

9. 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)

10. The cotyledon of the monocot is called :-
a) Coleoptile b) Coleorhiza c) Scutellum d) Perisperm

Answer : Scutellum (c)

11. The shoot apex is protected by a sheath like structure :-
a) Scutellum b) Coleorhiza c) Epiblast d) Coleoptile

Answer : Coleoptile (d)

12. The cells of quadrant stage are the derivatives of :-
a) Apical cell b) Basal cell c) Both (a) and (b) d) None of these

Answer : Apical cell (a)

13. The suspensor in a dicot embryo is around _____ celled long.
a) 2 to 3 b) 3 to 4 c) 6 to 8 d) 20

Answer : 6 to 8 (c)

14. The plumule, hypocotyls and radicle arises from the region between the 2 cotyledons during _____ stage.
a) Globular b) Caudate stage c) Linear stage d) All of these

Answer : Caudate stage (b)

15. The octant stage of embryo consists of _____ cells.
a) Four b) Eight c) Numerous d) Two

Answer : Eight (b)