



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 09

Class: XII

Sub: Biological Science

Date: 09.06.2020

Topic: Sexual Reproduction in flowering plants (Part 5)
Development of Embryo

F.M. : 15

Choose the correct option:

(1x15=15)

1. The embryo is formed from :-
a) Primary endosperm nucleus b) Zygote c) Secondary nucleus d) Egg
Answer : Zygote (b)
2. The development of mature embryo from diploid zygote is called :-
a) Embryology b) Embryo rescue c) Embryogenesis d) All of these
Answer : Embryogenesis (c)
3. The number of cotyledons in the dicotyledonous plants are :-
a) One b) Two c) Three d) Multiple
Answer : Two (b)
4. The development stages in monocots and dicots are similar upto _____ stage.
a) Quadrant b) Tetrad c) Globular d) Caudate
Answer : Globular (c)
5. The first division in the development of dicot embryo is :-
a) Perpendicular b) Longitudinal c) Vertical d) Transverse
Answer : Transverse (d)
6. The 2-celled proembryo is close to the _____ end.
a) Micropylar b) Chalazal c) Lateral d) Peripheral
Answer : Micropylar (a)
7. The proembryo of dicots acquires an inverted T shape during _____ stage.
a) Octant b) Globular c) Caudate d) Quadrant
Answer : Quadrant (d)
8. The distal most cell of the suspensor contiguous with the spherical distal part of proembryo functions as :-
a) Hypophysis b) Haustoria c) Radicle d) Plumule
Answer : Hypophysis (a)

9. The plumule and radicle give rise to :-
a) Shoot b) Root system c) Root and shoot respectively d) Shoot and root respectively
Answer : Shoot and root respectively (d)
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) Seutellum 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)