

1. **True statement regarding stamens is / are** ()
I. In a single flower stamens differ in their in their lengths
II. Stamens in different flowers show different shapes
III. Stamens of different flowers show different attachments
IV. Stamens are always bilobed at their distal ends
1. I & II 2. II, III & IV 3. I, II & III 4. I, II & IV
2. **Number of microsporangia in an immature dithecos stamen is/are** ()
1) 2 2) 4 3) 1 4) 8
3. **Monothealous condition is seen in** ()
1. *Papaver* 2. *Hibiscus* 3. *Annona* 4. *Michelia*
4. **In a mature anther of *Datura* the number of pollen sacs are** ()
1) 4, at each corner of the anther 2) 2, on each side of the central sterile tissue
3. Only one covered by anther wall 4. Only one due to dissolution of sterile tissue
5. **Endothecium is** ()
1) Inner wall of microspore 2) Middle layer of pericarp
3) Inner tissue of ovule 4) Fibrous layer of anther wall
6. **Assertion A: In fully mature anther lobe tapetal cells are not seen.** ()
Reason R: Tapetal cells serve as food material for growing spores.
1) Both A and R are true and R is the correct explanation of A.
2) Both A and R are true but R is not the correct explanation of A.
3) A is true, R is false
4) A is false, R is true
7. **Area at which dehiscence takes place is** ()
1) Connective 2) Between Theca 3) Stomium 4) At the apex
8. **Endothecium is present between** ()
1) Middle layers and tapetum 2) Tapetum and sporogenous tissue
3) Middle layers and epidermis 4) Outside epidermis
9. **First cell of the gametophyte is** ()
1) Gamete 2) Vegetative cell 3) Generative cell 4) Spore

10. **The chemical present in exine is** ()
1) Pectin 2) Cellulose 3) Sporopollenin 4) Pectin & Cellulose
11. **Functions of tapetum is** ()
1) Only protection 2) Protection and nutrition
3) Dehiscence 4) Photosynthesis
12. **True statement regarding tapetum is** ()
A. It is the only the layer that completely covers the sporogenous tissue
B. Cells of tapetum show more than one nucleus
C. In a mature anther lobe tapetum cannot be seen.
D. It is the inner most layer of the anther wall
1. A & B 2. B & C 3. B, C & D 4. A, B, C & D
13. **False statement regarding wall of microspore** ()
A. It is covered by three layers
B. It can be digested by cellulose and pectinase enzymes
C. It is haploid
D. Microspores are of different shapes and sizes
1. A & B 2. B & C 3. C & D 4. D & A
14. **Stage at which pollen grain released from pollen sacs in angiosperms generally** ()
1) Single celled 2) Three celled
3) Four celled 4) Two celled
15. **Total number of mitotic divisions in pollen grain is/are** ()
1) 1 2) 2 3) 3 4) 4
16. **In a mature pollen grain** ()
1. One bigger and one smaller cells are present
2. Two large nuclei are present
3. Four cells are present as tetrad
4. Single cell with large vacuole and one nucleus is present

17. Characters of vegetative and generative cells of male spore are

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1. Vegetative cell shows large round nucleus
2. Small generative cell floats in the cytoplasm of vegetative cell
3. Nucleus of generative cell is spindle shaped
4. Generative cell feeds on vegetative cell.

18. Allergic pollen grains are seen in

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1. *Hibiscus*
2. Carrot grass
3. Rice
4. Wheat

19. Pollen germination on stigma depends on

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1. Temperature
2. Humidity
3. Compatible stigma
4. All the above

20. Megasporangium is

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1. Nucellus
2. Carpel
3. Ovule
4. Pistil

21. Ovules without integument is seen in

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1. *Helianthus*
2. *Loranthus*
3. *Datura*
4. *Monocots*

22. Chalaza is

()

1. Distal part of ovule
2. Region below funicle
3. Basal part
4. Innermost portion of ovule

23. Abundant food material is seen in

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- A. Tapetum
- B. Vegetative cell of pollen
- C. Nucellus of ovule
- D. Central cell
- E. Secondary polar nucleus
1. A, B, C
2. A, B, D, E
3. A, C, E
4. A, B, C, D, E

24. Female gametophyte is

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1. Megaspore mother cell
2. Functional mega spore
3. Embryo sac
4. Egg apparatus

25. Ovule without curvature is seen

()

1. Bean
2. *Polygonum*
3. Sunflower
4. *Tridax*

26. **Reduction division takes place in** ()
1. Megaspore 2. Megaspore mother cell 3. Functional megaspore 4. Embryo sac
27. **Micropyle very near to funicle is seen in the ovule type of** ()
1. Orthotropous 2. Campylotropous
3. Anatropous 4. Campylotropous or Anatropous
28. **Ploidy of MMC and nucellus respectively is** ()
1. Haploid, Diploid 2. Diploid, Haploid 3. Haploid, Haploid 4. Diploid, Diploid
29. **Largest cell of the embryo sac is** ()
1. Egg cell 2. Central cell 3. Antipodal cell 4. MMC
30. **A typical angiospermic embryo sac shows** ()
1) 8 celled and 7 nucleate 2) 8 celled and 8 nucleate
3) 7 celled and 7 nucleate 4) 8 celled and 7 nucleate
31. **Position of the egg apparatus is** ()
1. Micropylar side 2. Chalazal side
3. Lateral side 4. Either micropylar or chalazal side
32. **Number of mitotic divisions takes place in forming an embryo sac is/are** ()
1) One 2) Three 3) Two 4) Four
33. **True statement regarding embryo sac is** ()
1. Nuclear divisions are free nuclear
2. Cell wall formation takes place after 7 nucleate stage
3. Only one spore out of four develops into embryo sac
4. It takes food from endosperm
34. **Number of cells that do not participate in reproduction** ()
1) One 2. Four 3. Five 4. Seven

35. **Function of the synergids is** ()
1. Nutrition to the embryo
 2. Protection of egg cell
 3. Guiding pollen tube
 4. Guiding male gametes
36. **Assertion (A): Cells of nucellus have abundant reserve food material** ()
- Reason(R): It has to serve as food material for the growing embryo sac**
- 1) Both A & R are true and R is the correct explanation of A.
 - 2) Both A & R are true but R is not the correct explanation of A.
 - 3) A is true, R is false
 - 4) A is false, R is true.
37. **Double fertilization is** ()
1. Union of two gametes with the egg
 2. Union of one gamete with two polar nuclei
 3. Union of two embryo sacs with two gametes
 4. Union of one male and female gamete and union of other male gamete and secondary nucleus
38. **Assertion (A): In Angiosperms endosperm is always triploid** ()
- Reason(R): Endosperm results from double fertilization**
- 1) Both A & R are true and R is the correct explanation of A.
 - 2) Both A & R are true but R is not the correct explanation of A.
 - 3) A is true, R is false
 - 4) A is false, R is true.
39. **To produce 100 gametes number of microspore mother cells required are**()
- 1) 25
 - 2) 13
 - 3) 12
 - 4) 12.5
40. **Monosporic type of embryo sac is** ()
- 1) Embryo sac developed from single spore
 - 2) Only one spore develops into embryo sac
 - 3) Embryo sac developing into one sporophyte
 - 4) Embryo sac fertilized by one microspore

Embryology-I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
3	4	2	2	4	1	3	3	4	3	2	4	1	4	2	1	2	2	4	3
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
2	3	3	3	2	2	3	4	2	4	1	2	1	3	3	1	4	3	2	2

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