YAKEEN 2.0 2023

Sexual Reproduction in Flowering Plants

DPP-02

1. The placenta is located.....
(1) Inside the ovarian cavity.
(2) Outside the ovarian cavity.
(3) Both of the above.
(4) None of the above.

2. The number of ovules in an ovary of paddy may be...
(1) More than one (2) One
(3) Two (4) Four

3. The _____ represents the female reproductive part of the flower.
(1) Androecium (2) Gynoecium
(3) Sepals (4) Petals

4. The constant feature of embryo sac is
(1) Synergids (2) Antipodals
(3) Egg (4) Polar nuclei

5. The largest cell in an embryo sac is
(1) Egg (2) Central cell
(3) Synergid (4) Antipodal cell

6. Megasporangium along with its protective integument is called
(1) Ovary (2) Ovule
(3) Funicle (4) Chalaza

7. In angiosperms, how many megaspore mother cells are required to produce 600 functional megaspores?
(1) 600 (2) 150
(3) 2400 (4) 200

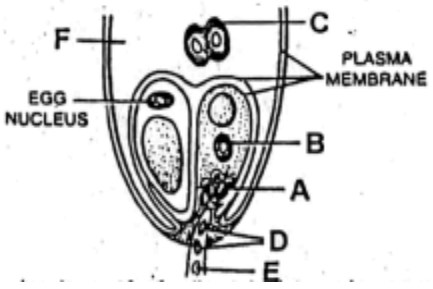
8. Which of the following sequence of development of embryo sac/ female gametophyte is correct?
(1) Nucellus → Megaspore → Embryo sac
(2) Nucellus → Megaspore mother cell → Megaspore → embryo sac
(3) Nucellus → Megasporangium → Megaspore → Embryo sac
(4) Nucellus → Megagametophyte → Megaspore → Embryo sac

9. For the formation of embryo sac, the megaspore mother cell undergoes–
(1) Two meiotic and two mitotic divisions
(2) One meiotic and three mitotic divisions
(3) Two meiotic divisions
(4) One meiotic and two mitotic divisions

10. The ploidy levels of the cells of the nucellus, MMC, the functional megaspore and female gametophyte–
(1) 2N, N, 2N, N
(2) N, N, 2N, N
(3) 2N, 2N, N, N
(4) N, 2N, 2N, N

11. Embryo sac is monosporic when it develops from–
(1) One of the four megaspores of a megaspore mother cell (MMC)
(2) 3 megaspores of a megaspore tetrad
(3) 2 megaspores
(4) The MMC where meiosis has occurred but cytokinesis does not take place

12. Study the diagram given below showing entry of pollen tube into embryo sac. Identify A to E–



	a	b	c	d	e	f
(1)	Filiform apparatus	Synergid	Polar nuclei	Vegetative Nucleus	Male Gametes	Central cell
(2)	Filiform apparatus	Synergid	Polar nuclei	Male gametes	Vegetative Nucleus	Central cell
(3)	Obturator	Synergid	Polar nuclei	Male gametes	Vegetative Nucleus	Central cell
(4)	Egg apparatus	Synergid	Male gametes	Male gametes	Vegetative Nucleus	Central cell

Note: Kindly find the Video Solution of DPPs Questions in the DPPs Section.

Answer Key

1.	**(1)**	**7.**	**(1)**
2.	**(2)**	**8.**	**(2)**
3.	**(2)**	**9.**	**(2)**
4.	**(3)**	**10.**	**(3)**
5.	**(2)**	**11.**	**(1)**
6.	**(2)**	**12.**	**(2)**

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