

SELF ASSESSMENT TEST

(Chapter 1: Reproduction in lower and higher plants)

Time : 1 Hour]

[Marks : 20

Notes :

1. All questions are compulsory.
2. Figures to the right indicate full marks.

SECTION – A

Q. 1. Multiple Choice Questions (MCQ) : (1 mark each)

- (i) If the number of chromosomes in an endosperm cell is 27, what will be the chromosome number in the definitive nucleus?
(a) 9 (b) 18 (c) 27 (d) 36 [1]
- (ii) A group of three cells situated at the base of the embryo sac are called
(a) tube (b) generative (c) synergid (d) antipodal [1]
- (iii) The cross pollination within the same species is also called
(a) hybridization (b) xenogamy (c) allogamy (d) autogamy [1]
- (iv) In wall of mature anther, shows fibrous thickenings.
(a) epidermis (b) endothecium (c) middle layer (d) tapetum [1]

Q. 2. Very Short Answer Questions (VSA) : (1 mark each)

- (i) Give definition : Megasporogenesis. [1]
- (ii) What is triple fusion? [1]

SECTION – B

Q. 3. Short Answer Questions (SA - I) : (2 marks each)

- (i) What are the different types of cross pollination based on the abiotic pollinating agents? [2]
- (ii) Give reason : The development of embryo sac is described as monosporic. [2]

SECTION – C

Q. 4. Short Answer Questions (SA - II) : (3 marks each)

- (i) Describe the structure of a mature anatropous ovule or a typical angiospermic ovule. [3]
- (ii) Sketch and label : Development of male gametophyte. [3]

SECTION – D

Q. 5. Long Answer Questions (LA) : (4 marks)

- Explain the development of dicot embryo. [4]
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