



12th Science : Biology
Reproduction in Lower and Higher Plants,

DATE:

TIME: 1 hour

MARKS: 25

SEAT NO:

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Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Section A

Q.1 Select and write the correct answer.

(4)

1. The stalk of the ovule is called
A) placenta B) funicle
C) hilum D) micropyle
2. Which of the following statements about sporopollenin is false?
A) Exine has apertures called germ pores where sporopollenin is present
B) Sporopollenin is one of the resistant organic materials
C) Exine is made up of sporopollenin
D) Sporopollenin can withstand high temperatures and strong acids
3. An Angiospermic plant has to produce 88 viable ovules. How many meiotic divisions will be needed to produce equal number of female gametophytes by this plant?
A) 88 B) 22
C) 44 D) 132
4. The layer in anther that is responsible for dehiscence is
A) tapetum B) epidermis
C) microspore D) endothecium

Q.2 Answer the following.

(3)

1. Mention the sequential events that occur in sexual reproduction.
2. How do plants reproduce without seeds?
3. Define Flower:

Section B
Attempt any Four

- Q.3 Write short note on chiropteryphily. **(2)**
- Q.4 Write short note on Parthenocarpy. **(2)**
- Q.5 Explain how commercial cultivation of sweet potato and potato crop is done. **(2)**
- Q.6 Why does gardener chose to propagate plants asexually? **(2)**
- Q.7 Prepare chart for natural vegetative propagation exhibited by flowering plants indicating the vegetative part/s and the different examples. **(2)**
- Q.8 Enlist the significance of seed and fruit formation. **(2)**

Section C
Attempt any Two

- Q.9 Give brief account of artificial methods of vegetative propagation. (3)
- Q.10 Write shot note on development of endosperm. (3)
- Q.11 Explain natural vegetative propagation through leaves giving examples. (3)

Section D
Attempt any One

- Q.12 What are the types of hydrophily? Explain giving examples for each. (4)
- Q.13 Describe the entry of pollen tube into the ovule. (4)