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5 SEM TDC BOTH (CBCS) C 11

2 0 2 3

(November)

BOTANY

(Core)

Paper : C-11

(Reproductive Biology of Angiosperms)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : $1 \times 5 = 5$

(a) _____ discovered double fertilization
in angiosperms.

(Fill in the blank)

(b) Ovule changes into fruit/seed/flower.

(Choose the correct answer)

(c) The most primitive type of ovule
is _____.

(Fill in the blank)

(2)

(d) The study of pollen is known as Palaeontology/Palynology/Embryology.

(Choose the correct answer)

(e) Allium type of embryo sac is monosporic/bisporic/tetrasporic.

(Choose the correct answer)

2. Write the precise notes on the following (any three) : $4 \times 3 = 12$

(a) Function and types of tapetum

(b) Different kinds of endosperm

(c) Apomixis and its significance

(d) Ontogeny of flower

(e) Parasexual hybridization

3. Describe the different contrivances or mechanisms to perform cross-pollination. Why does nature prefer cross-pollination? $10 + 2 = 12$

Or

What is NPC system of classification? Write about the classification of pollen types based on NPC system. $2 + 10 = 12$

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(Continued)

(3)

4. With suitable diagrams, describe the different types of embryo sacs of angiosperms. 12

Or

Write notes on the following : $4 \times 3 = 12$

(a) Male germ unit (MGU)

(b) Self-incompatibility

(c) Microsporogenesis

5. With suitable diagram, write briefly about the development of embryo in dicots. 12

Or

Write briefly about the various mechanisms of seed dispersal and its importance. 12

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