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UG/5th Sem/Bot(H)/T/19

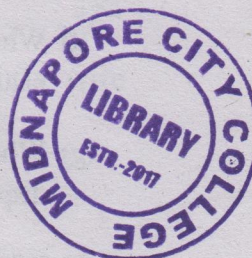
2019

B.Sc. (Honours)

5th Semester Examination

BOTANY

Paper - C11T



(Reproductive Biology of Angiosperms)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions from the following.

2×5=10

1. (a) What are cybrids ? Give example.
- (b) Write the differences between GSI and SSI ?
- (c) What is pollinia ? In which family does it found ?
- (d) What is coma ? Mention its functions.

[Turn Over]

(2)

- (e) What are androphore and gynophore ?
- (f) What is sporopollenin ? Write the chemical nature of sporopollenin.
- (g) What is jaculator ? How it helps in seed dispersal ?
- (h) What is obturator ? Give example.

Group - B

Answer any *four* questions from the following.

5×4=20

2. (a) What is NPC system ? Classify the pollen grains on the basis of number and position of aperture with diagram. 1+2+2
- (b) What is perisperm ? With suitable illustration and example describe any one type of development of endosperm in Angiosperms. 1+4
- (c) Classify different types of polyembryony with example. Write the causes of polyembryony. What is perisperm ? 2+2+1
- (d) What is geitonogamy ? Write any two contrivances of self pollination and other two contrivances of cross pollination. 1+2+2

(3)

- (e) Describe the *Polygonum* type of mega gametogenesis with proper diagram. 3+2
- (f) Describe different types of zoophily with examples.

Group - C

Answer any *one* question from the following.

10×1=10

3. (a) Classify different types of embryo among the dicotyledons with proper illustrations and examples. 6+4
- (b) Distinguish between pseudomonads and polyads. Briefly explain the genetic and molecular aspects of flower development. Explain the significance of apomixis. 2+4+4