Botany [Honours]

[CBCS]

B.Sc. Fifth Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER-C11T

REPRODUCTIVE BIOLOGY ANGIOSPERMS

Full Marks: 40 ***Time: 02 Hrs***

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group A

1) Answer any FIVE questions of the following: **5x2= 10**

a. What is tapetuim? What is its origin?

b. Define polyembryony.

c. Define SSI.

d. Define Amphitropous ovule with example.

e. What are the advantages of cross pollination?

f. What is parthenogenesis?

g. What is herkogamy? Give an example.

h. What is floral identify gene? Give an example.

Group B

2. Answer any FOUR questions of the following: 4x5 = 20

a) What is cybrid? Discuss its significance. 2+3

b) Write NPC system and classification. 2+3

c) Describe the Nuclear and Helobial type of endosperm with diagrams. 2½+ 2½

d) What do you mean by self-incompatibility? Write a short note on intra ovanan pollination.

e) Write about the four type of Apomixis with example.

f) Write a short note about Megasporogenesis and Megagametogenesis.

Group C

3. Answer any ONE question of the following: 1x10 = 10

a) Describe the different stages of the development of a typical dicotyle donous embryo with suitable diagrams. 5+5

b) What is sporopollenin? Mention its chemical nature. Mention the significance of callose deposition in the anther wall. 2+3+5
