Total number of printed pages-3

3 (Sem-5/CBCS) BOT HC 1

2024

BOTANY

(Honours)

Paper : BOT-HC-5016

(Reproductive Biology of Angiosperm)

Full Marks : 60

Time : Three hours

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

1. Answer the following questions : $1 \times 7 = 7$

- (a) Who formulated the ABC model of flower development ?
- (b) Write the name of the gene which form callose in meiocytes.
- (c) What is pollinia ?
- (d) What is apomixis ?
- (e) What is tapetum ?

Contd.

3 (Sem-5/CBCS) BOT HC 17C 2	3 (Se
(d) Justify the statement Flower is a	
(c) What is pollination ? Discuss variouspollination types in flowering plants.	
(b) Briefly describe the NPC systems of Pollen Classification.	
(a) Discuss about the Pollen Wall Proteins and their significance.	
Answer any three of the following questions: 5×3=15	ω.
(d) What is double fertilization ?	
 (c) Write the differences between Anacatatreme and Zonotreme types of pollen grains. 	
by Write the functions of tapetum.	
(a) Why the tube nucleus is regarded as "Non-functional Vestigial Structure" ?	
Answer the following questions : 2×4=8	2.
(g) Define polyembryony.	
(f) What is the number of APC in Polygonum type of embryo sac ?	

(e) embryology ? What are the objectives of experimental

questions : Answer any three of the following $10 \times 3 = 30$

4

- (a) Discuss the ABC Model of Flower Development in flowering plants.
- (b)label diagram. development of flowering plants with Describe the microgametophyte
- <u>(</u>) angiosperms of tetrasporic embryo sacs found in in detail, the structure of various types What is female gametophyte ? Describe 2 + 8 = 10
- (a) within the megasporangium (ovule). Discuss the post-fertilization changes
- (e) What is endosperm ? Describe various Angiosperms with neat diagram. types of endosperms found in

2 + 8 = 10

5 dispersal of seeds. dicotyledonous embryo. Add a note on Write the development of a typical 6+4=10

3 (Sem-5/CBCS) BOT HC 1/G 3

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