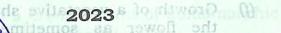
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Aaram Dhekis

Acc. No.

Date

3 (Sem-5/CBCS) BOT HC 1



ROTANY SI ESECT

(Honours Core)

Isnillog A May

(Reproductive Biology of Angiosperms)

Full Marks: 60 caudicle and

Time: Three hours

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

2. OAnswers the following on and 2x4=8 1. Answer the following:

- Who wrote the book, An Introduction (a) to the Embryology of Angiosperms in 1950 ?
- What is 'Florigen'?
- Name the most common embryo sac (c) found in angiosperms.
- Dispersal of seeds by human being is (d) (Fill in the blank) called

- (e) Who first reported 'Hypostase'in ovule?
 - Growth of a vegetative shoot beyond the flower as sometimes seen in roses is called Acc. No. Vo. (Fill in the blank)

A pollinarium contains —

- pollinia, viscidium and stipe
- pollinia, caudicle and stipe
- pollinia, viscidium, caudicle and

* Nagaon

- (iv) pollinia, caudicle and viscidium (Choose the correct answer)
- 2. Answers the following: $2 \times 4 = 8$
 - (a) What is MGU?
 - (b) Distinguish between xenogamy and geitonogamy.
 - Give a brief account of apomixis.
 - (d) What do you mean by tenuinucellate ovules?
- Answer any three of the following: $5 \times 3 = 15$
 - (a) Give an account of the structure of pollen wall.

- (b) What is polyembryony? Discuss the significance of polyembryony.
- Give a brief account of homomorphic (c) and heteromorphic self incompatibility.
 - Give an illustrated account of the (d) scope of palynology.
 - Discuss the contribution of reproductive S. G. Nawaschin biology.
- Answer any three of the following: $10 \times 3 = 30$
 - Give an account of NPC system for classification of pollen grains and mention its significance. 8+2=10
 - What is megasporogenesis? Describe the process of megasporogenesis and megagametogenesis with the help of 1+9=10suitable diagrams.
 - What do you mean by embryo-(c) endosperm interaction? Give an account of the embryo-endosperm interaction in an ovule. Mention the functions of endosperm. 2+6+2=10

- (d) Define pollination. What is the significance of pollination? Give an account of different types of cross pollination. Upper land a 91+2+7=10
 - What is the importance of (e) dispersal in plants? Discuss the dispersal of seeds by wind and water. vgolonylag lo agose 2+8=10
 - What do you mean by induction of flowering? Describe the genetic and molecular mechanism flower development. 2+8=10

