

# 2020/TDC(CBCS)/ODD/SEM/ BOTHCC-501T/143

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TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021 (e) What is tapetum? State its function.

(f) arDefine polixYNATOB is the difference

between viable and non-viable pollens? (5th Semester) at toriW

driw (or Course No.: BOTHCC-501T (5)

( Reproductive Biology of Angiosperm )

Full Marks: 50 Pass Marks: 20 zi tenW

> Time: 3 hours elepment in Pagonia.

The figures in the margin indicate full marks for the questions dy bas

#### (m) What do you mean by GST? SECTION—A m) What is self-incompatibility?

- Answer any ten questions: 2×10=20
  - What is endosne Write in brief on the scope of studying (a) plant embryology. In woy ob sadW (p)
  - What do you mean by NPC system? (b) structure the Describe
  - Write on the major contribution of S. G. (c) Nawaschin.

10-21/139

(Turn Over)

# 2020/CECSCACOS SEM BOTHCC-SOIT/163

- (d) Write in brief the structure and functions of anther.
- What is tapetum? State its function.
- Define pollinia. What is the difference between viable and non-viable pollens?
- What is double fertilization?
- (h) Draw an embryo sac (tetrasporic) with example.
- (i) Write a note on the structure of anther wall.
- What is parasexual hybridization?
- Write a short note on embryo development in Paeonia.
- What is the difference between hybrid and cybrid? trans and real
- (m) What do you mean by GST?
- What is self-incompatibility?
- Write the role of filiform apparatus. (0)
- What is endosperm?
- What do you mean by aril? (q)
- Why are seeds dispersed? (r)
- Describe the structure dicotyledonous seed.
- What is in vitro pollination?

10-21/139

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#### and (63) hones we have and

### 10. Give an account B-MOITSE ode to overcome Answer any five questions

- 2. Write brief notes on the contributions of (a) E. Strasburger and (b) W. Hofmeister. 3+3=6
- 3. Give an account of the contribution of 6 P. Maheswari in plant embryology.
- 4. "Flower as a modified determinate shoot." 6 Justify.
- 5. What do you mean by pollination? Discuss the types of pollination. Mention the adaptive 1+2+3=6 features of cross-pollinated plants.
- 6. Draw and describe the polygonum type of 2+4=6 embryo sac development.
- 7. Describe in detail the process of micro-6 sporogenesis.
- 8. What is embryo? Describe the development 1+5=6 of a typical dicotyledonous embryo.
- 9. Write notes on polyembryony and apomixis. 3+3=6  $2020/\mathrm{TDC}(\mathrm{CBCS})/\mathrm{ODD}/\mathrm{SEM}/$

10-21/139 OHTOS

(Turn Over)

- 10. Give an account on the methods to overcome self-incompatibility.

  3+3=6
- 11. Write notes on cybrids and in vitro fertilization.

  3+3=6
- Give an account \*\* \* he contribution of
   Maheswari in plant embryology.
- 4. "Flower as a modified determinate shoot."
  Justify.
- 5. What do you mean by commation? Discuss the types of pollination Mention the adaptive features of cross pollinated plants. 1+2-3=6
- 6. Draw and describe the polygonum type of embryo sac development.
- T. Describe in detail the process of microsporogenesis.
- 8. What is embryo? Describe the development of a typical dicatyledonous embryo. 1+5=6
  - 9. Write notes on polyembryony and apomixis.

10-21-280/139

3+3=6

2020/TDC(CBCS)/ODD/SEM/ BOTHCC-501T/143