

A PART PLAN

### 2022/TDC/ODD/SEM/ BOTDSC/GE-301T/141

# TDC (CBCS) Odd Semester Exam., 2022

# BOTANY

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( 3rd Semester )

Course No.: BOTDSC/GE-301T

( Plant Anatomy and Embryology )

Full Marks: 50 Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

#### Unit—I الله المحافظة المعافظة المعافظة

- Answer any three of the following questions:
  - $1 \times 3 = 3$

- What are histogens? (a)
- Who proposed Tunica-Corpus theory? (b)
- What is the function of chlorenchyma? (c)
- Write the name of a plant or family, (d) where bicollateral vascular bundle is present.



(Turn Over)

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secondary phloem.

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2. Answer any one of the following questions:  (a) What is epidermis? State its function.  (b) Write the distinct anatomical features of a dicot stem.	6. Answer any one of the following questions: 25  (a) What is cambium? Write a note on the structure of cambium. State the functions of cambium. 1+2+2=5
3. Answer any one of the following questions: 5  (a) Write an elaborate note on complex tissues: (b) Give an account of the anatomy of	(b) What is periderm? Describe the parts of periderm. 2+3=5  UNIT—III
dicotyledonous roots.	7. Answer any three of the following questions: 1×3=3
UNIT—II  4. Answer any <i>three</i> of the following questions:  1×3=3	(a) Write the scientific name of a hydrophyte.  (b) What are trichomes?
<ul><li>(a) State the use of dendrochronology.</li><li>(b) What is laburnum?</li></ul>	(c) What are thenomes:  (d) what are thenomes:  (e) What are stinging hairs?
(c) What is tylosis?  (d) Write the scientific name of the plant	(d) State the functions of aerenchyma,
from which haematoxylin is obtained.	8. Answer any one of the following questions:
5. Answer any <i>one</i> of the following questions: 2	(a) Draw and describe the structure of stomata.
(a) Write a note on lenticels.  (b) Write the economic importance of	(b) Write the chemical constituents of epicuticular waxes.

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(4)

9. Answer any one of the following questions: 5

(a)	Draw and describe t	he stem anator	my of
1:2:2:5	a hydrophyte.	grantista ett. Grantista ett.	2+3=5
(b)	What are xeroph	ytes? Write	the es.
- Pro-		28.1357.34	1+4=5
. A	Unit-Iv	v	
10. Ans	wer any <i>three</i> of the fo	llowing questic	ons: 1×3=3
* (a)	What is pollinium?	Were the	(10)
(b)	State the function o	f jaculator.	<u>(ii)</u>
(c)	What are the two e mature seed?		of a
(d) <sup>61</sup>	What do you mean	by porogamy?	24
<b>11.</b> Answ	ver any <i>one</i> of the follo	owing question	s: 8 2
(a)	State the functions	of tapetum.	(v)
(b)	Describe the struct polygonum type of e	ure of a ma	ture
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12. Answer any one of the following questions: 5

(a) Give an account of the pollination mechanism in Salvia.

(b) Describe the mechanisms of wind dispersal of seeds.

UNIT—V

13. Answer any three of the following questions: 1×3=3

(a) Give an example of nuclear endosperm.

(b) What is epicotyl?

(c) Define embryogeny.

(d) What is metaxenia?

14. Answer any one of the following questions: 2

(a) Draw a labelled diagram of the structure

of a mature embryo sac.

embryo.

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Draw a labelled diagram of mature dicot

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- 15. Answer any one of the following questions: 5
  - (a) Define polyembryony. Write the practical applications of polyembryony. 2+3=5
    - (b) Describe the typical type (crucifer type) of dicot embryo development.

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