## 2019/TDC/ODD/SEM/BOTDSC/ BOTGE-301T/128

... Write a late

### TDC (CBCS) Odd Semester Exam., 2019

2. Answer any one of the following a war as

# BOTANY

(3rd Semester)

Course No.: BOTDSC/BOTGE-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

#### Sine Unit—Impore, at Ise W

- 1. Answer any three of the following: 1×3=3
  - (a) Define aerenchyma.
  - (b) Name complex tissues. The vas toward ...
  - (c) Write one character of root hair.
  - (d) Define meristems.



# http://www.elearninginfo.in (3)

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2.	Answer any one of the following:	6. (a) Write in detail the structure and function of vascular cambium.		
	(a) Differentiate between exarch and endarch xylem.	10. Answer any, three of the following questions is 1 ×3=3   1 ×3=		
	(b) Write a brief note on sclerenchyma.	(b) Describe in detail the secondary growth in stem with neat sketches.		
3.	(a) Draw and describe the structure of monocot stem as seen in transverse	(b) What is anathypous ovide?		
	Section. Tine JOTOB SECTION ON SECTION OF	7. Answer any three of the following: 1×3=3		
	(b) Write a note on 'tunica-corpus theory'.	(a) Name one hydrophyte.		
	7 Mark 350	(b) What is guard cell?		
	UNIT—II	(c) What is cuticle?		
4.	Answer any three of the following questions:	(d) Give example of a xerophytic plant.		
	(a) Name a plant where vascular bundle is closed.	8. Answer any one of the following questions: 2		
	(b) What is secondary xylem?	(a) Draw and define paracytic stomata.		
Ent.	(c) What do you mean by open vascular bundle?	12. (a) What do you mean by epidermal ocuterowth?		
	(d) What are primary vascular tissues?	9. (a) Write a general account of adaptations of		
5.	Answer any one of the following:	hydrophytic plants. 5		
	(a) Write a note on heartwood. To show (a)	(h) Write the role of different types of seed		
	(b) Write a note on sapwood.	(b) Describe in detail how the xerophytes endure in extreme xeric environment.		
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- 10. Answer any three of the following questions:  $1 \times 3 = 3$ 
  - (a) Give an example of anemophilous plant.
  - (b) What is anatropous ovule?

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- (c) What is the function of pollen?
- (d) Name one insect pollinated plant.
- 11. Answer any one of the following:
  - (a) Write a note on double fertilization.
  - (b) Draw and label the structure of a mature embryo sac.
- for Wilst do you mean by epidermal 12. (a) Write in detail the different types of embryo sacs with neat sketches.

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(b) Write the role of different types of seed appendages and in and seed and dispersal mechanisms in plants.

UNIT-V

 $1 \times 3 = 3$ 

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- 13. Answer any three of the following:
  - (a) Name one albuminous seed.
  - (b) What is the position of plumule in monocot embryo?
  - (c) What is cleavage polyembryony?
  - (d) Define adventive polyembryony.
- 14. Answer any one of the following questions:
  - (a) Write down the functions of endosperm.
  - (b) Write a brief note on endosperm-embryo relationship.
- 15. (a) Write a detailed account on applications of apomixis.

Or

general patterns/types (b) Describe endosperm development in plants. 5

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