kr-ages : 2) Name

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## FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

### **Core Course**

Botany

# BO 5B 05—ANGIO SPERM MORPHOLOGY, PLANT ANATOMY REPRODUCTIVE BOTANY AND PALYNOLOGY

(2012 Admissions)

	(2012 A	amı	ssions)
Time: Three Hou	ırs		Maximum: 30 Weightage
,	ype questions. Answer all twelve word questions:	ques	tions. Multiple choice, fill in the blanks and answer
1 Pneur	matothodes are:		
(a)	Pores present in velamen roots	s. (b)	roots of marshy plants.
(c)	roots of parasitic plants.	(d)	Pores present in pneumatophores.
2 Type o	of fruit in pineapple :		
(a)	aggregate.	(b)	multiple.
(c)	pome.	(d)	pepo.
3 One ar	mong the following is not an ext	ra ce	ell wall material :
(a)	suberin.	(b)	cellulose.
(c)	callose.	(d)	wax.
4 Norma	al secondary growth is seen in:		
(a)	Dracena.	(b)	Boerhaavia.
(c)	Eupatorium.	(d)	Bignonia.
5 Synga	amy is		
6 In mo	nocot leaf stomata are present o	n	
7 Phyllo	ode is a modification.		
8 In swe	eet potato type of roo	t mo	dification is seen.
9 Type o	of fruit in cucumber is	_	
10 In bic	ollateral vascular bundles phloer	n is s	seen on

- 11 Which type of embryosac seen in Polygonum.
- 12 A living mechanical tissue.

 $(12 \times 1/4 = 3 \text{ weightage})$ 

- II. Short answer questions. Answer all nine questions :
  - 13 Define Kopper-Kappe theory.
  - 14 What is an endosperm haustoria?
  - 15 What are leaf traces?
  - 16 Amphivasal vascular bundles.
  - 17 What are hydathodes?
  - 18 Write the properties of cell wail.
  - 19 Coenanthium.
  - 20 Imbricate aestivation.
  - 21 Butress roots.

(9.x 1 = 9 weigh lage)

#### III. Short essay or paragraph questions. Answer any five from seven questions :

- 22 Write short notes on under ground stem modification.
- 23 Describe the structure of monocot seed with diagram.
- 24 Describe the calcium oxalate crystals.
- 25 Give short notes on secondary tissues.
- 26 Give an account on periderm formation.
- 27 Explain helobial type of endosperm.
- 28 Write short note on polyembryony.

 $(5 \times 2 = 10 \text{ weightage})$ 

### IV. Essay questions. Answer any two from three questions:

- 29 Describe the development of microsporogenesis the help of suitable diagrams.
- 30 Explain anomalous secondary thickening in Bignonia.
- 31 Give an account of different types of fruits.

 $(2 \times 4 = 8 \text{ weigh' ore})$