

Reg. No.:....

Name :



K16U 0572

IV Semester B.Sc. Degree (CBCSS-2014 Admn. Regular)

	COMPLEMENTA 4C04 BOT/PLS		IN	BOTANY/PL		
Time : 3 l	Hours			Yen	Tota	al Marks : 32
		SEC	CTIC	Onesweet dist		
		(Ans	swe	er all)		
I. Choos	se the correct answe	er. (eentryns i				
1) Th	he pit aperture is clo	sed by			ne fruedos n	
a)	Tyloses	b) Lignin	c)	Torus	d) Cutin	
2) Ar	n antitranspirant					
a)	Indole Acetic acid			ABA		
c)	Gibberellins		d)	Kinins		
3) De	Dermatogen gives rise to					
a)	Xylem	b) Pith	c)	Epidermis	d) Cortex	
4) El	Element involved in stomatal mechanism					
a)	Magnesium	reny tell plants.	b)	Potassium	n now water o	
c)	Phosphorus		d)	Calcium		
5) N	fixing enzyme					
a)	Nitrate reductase		b)	Urease		
c)	Nitrogenase		d)	Amino transfe	rase	(5×1=5) P.r.o.

SECTION-B

(Answer any four)

- 6) With the help of diagrams explain the different types of sclereids.
- 7) Explain imbibition with suitable examples.
- 8) Distinguish between the anatomy of the dicot root and monocot root.
- 9) Write about the process of loss of water in the liquid form from plants.
- 10) What is phloem loading?
- Discuss the relationship between OP, TP, WP and DPD in movement of water across cells.

 (4x2=8)

SECTION - C

(Answer any three)

- 12) Give an account on the various types of photosynthetic pigments.
- Write what you know about phytochrome and its role in the process of flowering.
- 14) Comment on Sigmoid curve and the phases of growth.
- 15) Explain the structure and formation of the periderm with the aid of diagrams.
- Write on the mechanism involved in the photosynthesis of succulents. (3×3=9)

SECTION - D

(Answer any two)

- 17) Explain how water reaches the top of very tall plants.
- 18) What are major and trace elements, name them and give the role of six major elements found in plants?
- Describe the role of different types of hormones in the growth and development of plants.
- 20) Write in detail on the ergastic substances found in plants.

 $(2 \times 5 = 10)$