

K18U 0920

Reg. No. :

Name :

IV Semester B.Sc. Degree (CBCSS - Reg./Sup./Imp.) Examination, May 2018 (2014 Admn. Onwards)

				ANATOMY AND		Y
Tim	ne : 3 Hours				Total Ma	rks : 32
-14		SI	ECTIC	N-A meboliego		
Ar	nswer all. Choose th	ne correct answe	r.			
,1.	Small isolated ope a) Stomata c) Lenticels	nings on the sur		f old stem Cambium		
2.	The difference bet particular temperate a) D.P.D.		oressu	re of the solution ar	d) S.P.	ta moa a
3.	The tissue involved in periderm form a) Fasicular cambium c) Interfasicular cambium			b) Vascular cambium d) Phellum		
4.	Element involved in a) Magnesium			c) Phosphorus	d) Calcium	
5.	A gaseous hormon a) IAA	e b) Methane		c) Carbon dioxide	EUTOSEU (N. 18 UNES 18 SPE	5×1=5)
		atredo ni milante	CTIO	N-B	ain the mechan	lexel (

Answer any four.

- 6. Write notes on symbiotic N fixation.
- 7. Write notes on periderm formation.
- 8. Explain vernalization.

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- 9. Who proposed the Apical cell theory? Explain.
- 10. Give an account on plasmolysis.
- 11. Write on the organization of the root apex.

 $(4 \times 2 = 8)$

SECTION-C

Answer any three.

- 12. Explain complex tissues with the help of diagrams.
- 13. Write notes on photoperiodism.
- 14. Illustrate and explain non cyclic photophosphorylation. How does it differ from the cyclic process?
- With the help of suitable diagrams, explain ion uptake in plants by exchange mechanism.
- Some plants keep their stomata closed during the day. Explain the mechanism
 of photosynthesis in such plants. (3×3=9)

SECTION - D

Answer any two.

- 17. Explain the theories related to the opening and closing of stomata.
- 18. Describe with diagrams how secondary growth occurs in *Boerhaavia* stem. Why is it considered to be anomalous?
- 19. Illustrate and discuss the process of photorespiration in plants.
- 20. Explain the mechanism of upward movement of water in plants. (2x5=10)