R/A	62	CO
IVI	63	OZ



SECTION-E

Answer any one:

Long essay type questions. Each question carries a weightage of 4.

- 27. Describe C4 pathway.
- 28. With the help of suitable diagrams explain the primary structure of dicot stem.
- 29. What are growth regulators? Explain the role gibberellins in the growth of the $(1 \times 4 = 4)$ plant.



M 6362

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Reg. No.:		- 337	
Name :	belisa al mata b		
	B.Sc. Degree (C Examination	n, May 2014	flal:(y)
	MPLEMENTARY Clant Physiology, A Improv (2012 A	Angiosperm Anat ement	
Time: 3 Hours			Total Weightage
	SECTION (Answ		
Questions in bunches	of four ; Each bunch	carries a weightage	
1. Choose the correct	answer:		
 i) The difference be a particular temp 	etween the diffusion perature	pressure of a solution	on and its solvent at
a) D.P.D.	b) O.P.	c) T.P.	d) S.P.
ii) The technique o	f culturing plant cells	and organs on artifi	cial media
a) Invivo	b) Invitro	c) Hybridisation	d) Selection
iii) Loss of water as	liquid droplets from	the leaf margin	
a) Guttation	b) Transpiration	c) Evaporation	d) Imbibition
iv) Small isolated of	penings on the surfac	ce of old stem	British and Tixing
a) Stomata	b) Cambium	c) Lenticels	d) Cork
2. State true or false :			
i) Plasmolysis lead	ds to wilting		

- ii) Phytochrome is the pigment involved in photosynthesis.
- iii) Vascular bundles are scattered in monocot stem.
- iv) In gymnosperm phloem includes sieve cells.

3. 1	Fill in the blanks :				
	i) The thick extra stelar co	overing in old stem is ca	alled	anai an	
ii) The path of translocation of organic solutes is the					
i	ii) The S shaped curve rep	resenting the grand pe	riod of growth i	s called	
i	v) is the sum t	otal of genes present in	n a species.		
4 1	Match the following:				
	A	tus Binardial	C		
	Antitranspirants	Single layered	Anther		
	Rhizobium	Medium	Casparian s	trips	
	Endodermis	Nitrogen fixing	Carbondioxi	energi e	
1	Explant	Gas	Symbiosis		
E	Anouse in analysed or in a	ne contonco :			
5. /	Answer in one word or in o	ne semence .			
	i) Hematoxylin ii) Tyloses				
	ii) Coconut milk factor				
	v) Physical or chemical ag	ent inducing mutation			(= 4 =)
70	ry r nyolodron onomiodrag				
		SECTION-B			
Ans	swer any four :				
	erentiate the following. Eac				
		ate bio to spatium ent or			
b. F	Killing and fixing.				
7. /	Anomocytic and anisocytic				
8. 5	8. Symbiotic and asymbiotic nitrogen fixation.				
9. F	Phytosanitary certificate an				
0. F	Heart wood and sapwood.				
1. (CAM and C4 plants.				(4×1=4)

SECTION-C
- m

Answer any five:

Short answer questions. Each question carries a weightage of 1.

- 12. Water potential.
- 13. Structure of hydathode.
- 14. Hybrids
- 15. Anatomical adaptations of epiphytes.
- Essential elements.
- 17. Abscissic acid.
- 18. Simple tissues.

 $(5 \times 1 = 5)$

SECTION-D

Answer any six:

Short essay questions. Each question carries a weightage of 2.

- 19. Give an account of trichomes.
- 20. Explain passive absorption of water.
- 21. Write a note on different types of vascular bundles.
- 22. Give the practical application of auxins.
- 23. Explain Munch hypothesis.
- 24. List out the anatomical adaptations of hydrophytes.
- 25. Comment on the phases of growth.
- Explain the technique of invitro culture.

 $(6 \times 2 = 12)$