Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory.

- 2. Figures to the right indicate full marks.
- 3. Draw neat and labelled diagrams wherever necessary.

	A) Choose the correct option from the following:	10
	Shape of stomata found in Dicotyledonous plants.	
	a. Kidney b. Dumbbell c. Circular d. Square	
	A branch of botany deals with the internal structure and organization of the plants parts.	
	a. Physiology b Anatomy c. Taxonomy d. Mycology	
	Cotton fibre is the part of a. Epidermal tissue b. Ground tissue c. Vascular tissue d. Meristematic system system system	
	Light and Dark Reaction takes place cell organelle.	
	a. Nucleus b. Chloroplast c. Mitochondria d. Ribosome	
	pigment is also known as Essential Pigment	
	a. Xanthophyll b. Carotene c. Chl. b d. Chl. a	
	Which plant belongs to CAM plant from the following?	
	a. Pineapple b. Sugar Cane c. Catharanthus d. Rice	
	In C4 plant, the vascular bundles are surrounded by cells.	
	a Mesophyll b Bundle sheath c Epidermis d Xylem are the constituents of the basic molecular structure of the cell a. Primary b Secondary e Alkaloids d Lectins	
	metabolites metabolites c. Alkaloids	
	Tulsi plant belongs to family a. Santalaceae b. Acanthaceae c. Lamiaceae d. Liliaceae	
	Find the odd man out. a. Alkaloid b. Carbohydrate c. Fats d. Proteins	
1	B) Answer the following in one sentence:	
)	Function of Cuticle	
)	Components of Phloem tissue	
)	What is the full form of RuBisCO, give its function.	
)	Full form of CAM, Give 1 example of Plant exhibiting CAM.	
)	Give two functions of primary metabolites.	
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VCD: Semester-II Botany-II Time: 3 hrs. Date: 100 Marks Q. 2 Answer any two from the following: 20 M a) Write a note on the T.S of Dicot stem with help of a neat labelled diagram. 6) Describe the anatomical characters of monocot root. Give detailed account of epidermal appendages of plants. CI What are complex tissues? Give an account of any one complex tissue. d) Q. 3 Answer any two from the following: 20 M Describe various pigments involved in the process of photosynthesis in green plants a) Schematically represent the process of cyclic and non-cyclic photophosphorylation. Also 6) add a note on their significance. Write all reactions of carboxylation and reduction steps of Calvin cycle. (3) "The C4 plants have a selective advantage over C3 plants", Explain. d) 0.4 Answer any two from the following: 20 M What are secondary metabolites? Give an account of groups of secondary metabolites and a) its functions. What are the contents of Grandma's pouch? Give botanical name, family, active 6) constituents and uses of Tulsi. What is medicinal botany? Give botanical name, family, active constituents and uses of 0) Turmeric and Ginger. Give botanical name, active constituents and uses of Sandal wood. (d) Write Short Note (any four 0.5 20 M a) Hydathodes 61 Sclereids c) Photolysis of Water d) Ultrastructure of chloroplast e) Components of grandma's pouch 1) Medicinal uses Aloe vera