647510

BSc4BotC401x

Seat No :__

B.Sc. Semester - 4 (CBCS) Examination April/May -2022 [NEW COURSE]

Time: 2:30 Hours Instructions: 1. All questions are compulsory. 2. Figures to the right indicate m		larks: 70

Q-1 Answer the following question	ns as per instruction.	
(A) Answer in very short:		04
1. Name the nonvascular are	eas present in between the vascular bundles.	
Differentiate metaxylem	and protoxylem on the basis of thickening.	
Define the term: Ring por	rous	
4. What is included phloem	?	
(B)Answer in brief (any one):		03
	agram of v.s. of isobilateral leaf.	03
2. Distinguish between: Phel	lom and District	
(C)Answer in detail (any one)		95715
		07
2. Describe annual:	dary growth? Describe it in stem belonging to Liliaceae family	'.
2. Describe annual rings and	formation of tyloses.	
Q-2 Answer the following question	as as per instruction.	
(A)Answer in very short:		04
1. Which cell is the last cell	of sporophytic generation?	•
What is the function of O	bturator?	
3. Define the term: Syngamy		
(B)Answer in brief (any one):	c 4- nucleate type embryo sac is found?	02
	erative cell and vegetative cell.	03
	gametophyte and Female gametophyte.	
(C)Answer in detail (any one):		07
	f labelled illustrations the variation in Chrysanthemum type of	
embryo sac. 2. Discuss with diagram: Step	os of megasporogenesis	
2. 2.000.00 0.00	or megasporogenesis.	
Q-3 Answer the following question	s as per instruction.	
(A) Answer in very short:		04
1. By which region lateral tra	anslocation is performed? tion of water and solutes inside the plants?	
	• 222	
3. Define the term: Active ab		
4. In which substance maxim	num imbibition capacity is found?	

(B)Answer in brief (any one):	03
1. Write advantages of seed dormancy.	
2. Distinguish between: Diffusion and Osmosis	
(C)Answer in detail (any one):	
1. Discuss factors affecting salt absorption.	
2. Describe mechanism of vernalization in plants.	
Q-4 Answer the following questions as per instruction.	
(A)Answer in very short:	04
1. From where organic matter of soil is derived?	
2. How gully is formed?	
3. Define the term: Hydration in chemical weathering	
4. What does mean by fallow?	
(B)Answer in brief (any one):	03
1. Write applications of remote sensing in botany	
2. Distinguish between: Water erosion and wind erosion	
(C)Answer in detail (any one):	07
1. Discuss with diagram: horizontal layers found in the soil.	
Describe mechanical methods to control soil erosion.	
Q-5. Answer the following questions as per instruction.	
(A)Answer in very short:	04
1. Name the total self-duplicating hereditary material of cytoplasm?	
2. Give other two names of pure-line selection.	
3. State contribution of Karpechenko In the field of genetics.	
4. Give the full form of: PDB and LPCP	750
(B)Answer in brief (any one):	03
1. Write notes on: Encapsulation in preparation of synthetic seed	
2. Distinguish between: Natural seed and Synthetic seed	200
(C)Answer in detail (any one):	07
1. Discuss auto polyploidy and characters of autopolyploid	
2 What is mass selection? Discuss its steps, advantages and disadvantages.	