Exam. Code: 0003 Sub. Code: 0253

2021 B.A./B.Sc. (General)-3rd Semester

Botany

Paper-A: Diversity of Seed Plants & Their Systematic-I

Time allow							ax. Marks: 36	
NOTE:		mpulsory and						
	seiec	ung one	e questi	on from each Unit. Di _*_*_*_	raw aiaş	grams wnere neces	sary.	
I.	(0)	MCC) Diale					
1.	(a)		Pick the correct choice: - World's tallest Gymnosper is:-					
		(i)	(a)	Pinus		Sequoia		
			(a) (c)	Ginkgo	(b) (d)	Gnetum		
		(ii)	` ,	oxylic wood is found i	. ,	Onctum		
		(11)	(a)	Cycas	(b)	Pinus		
			(a) (c)	Ephedra	(d)	Taxus		
		(iii)	` '	ch ERA is age of Gym	. ,			
		(111)	(a)	Cambrian	(b)	Palaeozoic		
			(c)	Mesogoic		Cenozoic		
		(iv)	(c) Mesogoic (d) Cenozoic In coralloid root, blue green region is found in: -					
		(10)	(a)	Epidermis	(b)	Cortex		
			(c)	Vascular bundles	(d)	Pith		
		(v)	` /	s are winged in: -	(u)	Tim		
		(*)	(a)	Cycas	(b)	Pinus		
			(c)	Ephedra	(d)	Lyginopteris		
		(vi)	` /	use branching, jointed			re found in: -	
		(*1)	(a)	Gnetum	(b)	Pinus	ic found in.	
					1 20		(6×1)	
	(c) Ephedra (d) Ginkgo (b) Fill in the blanks: -							
	(0)	(i)						
		(ii)	Fossil plant discovered from Bihar/India is					
		(iii)	Cycas sperm is largest in Plank Kingdom. Its size is					
		(iv)	In monofoliar spur, the shape of needle is .					
		(v)	· · · · · · · · · · · · · · · · · · ·					
		(')						
	(vi) Seeds of which species of Pinus are edible .						. (6×1)	

(2+2+2)

UNIT - I

II.	Write vegetative & reproductive characters of Gymnosperms. V names of six Gymnosperms.	Vrite atleast (6)						
III.	Write notes on: -							
	(a) Manoxylic and Pycnoxylic wood							
	(b) Archagonium in Gymnosperms	(3+3)						
	<u>UNIT – II</u>							
IV.	What are fossils and fossilization? Explain the various types of fossil	s. (6)						
V.	Describe external morphology. Male & female flowers in fo Williamsonia.	ssil plant – (6)						
	<u>UNIT – III</u>							
VI.	Describe the structure of male cone and megasporophylls in Cycas.	(6)						
VII.	Write notes on: -							
	(a) Seed of Cycas							
	(b) Leaf of Cycas	(3+3)						
	<u>UNIT – IV</u>							
VIII.	Describe the development of male gametophyte in Pinusalong with structure of							
	Pollen Grain.	(6)						
IX.	Write notes on: -							
	(a) Economic importance of Ephedra							
	(b) Male flower of Ephadra							

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Angiospermic characters in Ephadra

(c)