(i)	(i) Printed Pages: 2				Roll No.							
(ii)	Questions			:9	Sub. Co							
		Exam. Code: 0 0 0 3										
			B.A	./B.Sc. (Gen	eral) 3 rd S	emest	er					
				1	128							
				BO	TANY	17 Y						
Pa	aper	: (A :	Div	ersity of See	d Plants &	their	Systematic-I)					
				ree Hours]			imum Marks: 36					
Note	:-	(1)	Attempt FIVE questions in all, selecting one from each Unit.									
(2) Question No. 1 is compulsory.												
	(3) Draw diagrams where necessary.											
1.	(A)	Mult	ltiple Choice Questions. Pick up correct choice:—									
		(i)	Chilgoza is obtained from seeds of:									
			(a)	Pinus roxbu			nus gerardiana					
			(c)	Pinus merku	sii (d) Pir	nus wallichiana					
		(ii)	"Sago Palm' is the common name of:									
			(a)	Cycas	(b							
			(c)	Ephedra	(d		drus					
		(iii)	Pyc	noxylic wood								
			(a)	Ginkgo 1	(b)							
			(c)	Cycas	(d)		one of these					
		(iv)				cone is absent?						
			(a)	Pinus) Cy						
			(c)	Ephedra) Gir	91101					
		(v)	t on:									
			(a)	Stem			ng shoot					
00.50	-		(c)	Dwarf shoot	(d)	All	of these					
0255/	EP	7-1011	8	le le	1		Turn over					

		(vi)	Myco	orrhizal symbolic association exists betw	ree,				
			(a)	Fungus + roots of Cycas					
			(b)	Fungus + roots of Pinus					
			(c)	Bacteria + roots of Cycas					
			(d)	Algae + roots of Pinus	6×1=6				
	(B)	Fill	in the b	olanks:—					
		(i)	Fertil	ization with the help of cilia is called					
		(ii)	In Pir	nus ovule is type.					
		(iii)	When	n more than one embryo is formed from fe	rtilized				
			egg, i	it is called					
		(iv)	The u	pper sterile portion of Microsporophyll in	Cycas				
			is call	led					
		(v)	Long	est Neck of Archegonium is found in	1 1				
			Gymn	nosperm.					
		(vi)	Sulph	nur dust can be seen in during polli	nation.				
					6×1=6				
				UNIT—I					
2.				of general characters of Gymnosperms.	6				
3.	Differentiate between Gymnosperms and Angiosperms.								
				UNIT—II					
4.	What are Fossils? Discuss their types and formation.								
5.	Describe the external morphology and reproductive organs in								
	Willia	msor	nia.		6				
				UNIT—III					
6.		Describe in detail the male cone of Cycas. 6							
7.	Describe the development of Female gametophyte of Cycas. 6								
				UNIT—IV					
8.			es on :-						
				of Ephedra.					
				leaves of Pinus.	3+3				
9.	Descr	ribe i	n detai	l the development of Embryo in Pinus.	6				