KAKATIYA UNIVERSITY

B.Sc III Year

Botany- Paper IV

(Physiology, Tissue culture, Bio technology, Seed technology and Hotrticulture) Model question paper – Theory

			Model question paper – Theory	
Time:	3 hours			Max. Marks: 100
			SECTION – A	
(Ins	structions	to the question P	APER SETTER: Set TWO questions from	n Each Unit of the given syllabus)
		Define or exp	lain ALL of the following	(8x2 = 16 Marks)
		•	Č	,
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
			SECTION – B	
(Ins	structions	to the question P	APER SETTER : Set TWO questions from	n Each Unit of the given syllabus)
(ite short answers for ALL of the following	
Q	(a)	***	UNIT - I	
).	(a)	(OD)	01111 - 1	
	(1.)	(OR)		
	(b)			
10.	(a)		UNIT - II	
		(OR)		
	(b)			
11.	(a)		UNIT - III	
	` /	(OR)		
	(b)	(/		
12	(a)		UNIT - IV	
12.	(a)	(OD)	ONII - IV	
	(1.)	(OR)		
	(b)		a- a- a	
			SECTION – C	
(Ins	structions	-	APER SETTER : Set TWO questions from	
		Write detail	led answers for ALL of the following	$(4 \times 15 = 60 \text{ Marks})$
13.	(a)		UNIT - I	
		(OR)		
	(b)	, ,		
14.	(a)		UNIT - II	
	(4)	(OR)		
	(b)	(OR)		
1.5			TINITE III	
15.	(a)	(OD)	UNIT - III	
		(OR)		
	(b)			
16.	(a)		UNIT - IV	
		(OR)		
	4 \			

(b)

KAKATIYA UNIVERSITY

B.Sc III Year

Botany- Paper IV

(Physiology, Tissue culture, Bio technology, Seed technology and Hotrticulture)

Model question paper – Theory

Time: 3 hours Max. Marks: 100

SECTION - A

Define or explain **ALL** of the following (8x2 = 16 Marks)

- 1. Imbibition
- 2. Photosystem
- 3. Auxin
- 4. Phytochrome
- 5. Protoplast
- 6. Transgenics
- 7. Bonsai plant
- 8. Bud grafting

SECTION - B

Write short answers for **ALL** of the following $(4 \times 6 = 24 \text{ Marks})$

9. (a). Nomenclature of enzymes

(OR)

- (b) Photophosparylation
- 10. (a). Biological nitrogen fixation

(OR)

- (b). Cytokinines
- 11. (a). Cybrids

(OR)

- (b). Synthetic seeds
- 12. (a) Seed banks

(OR)

(b) Importance of green house

SECTION - C

Write detailed answers for **ALL** of the following $(4 \times 15 = 60 \text{ Marks})$

13. (a) Describe mechanism of stomatal movement

(OR)

- (b) Give an account of C₄ cycle
- 14. (a) Discuss about pentose phosphate pathway

(OR

- (b) Write briefly about protein synthesis
- 15. (a) Discuss the importance of somatic hybrids in the improvement of crop plants (OR)
 - (b) What is r-DNA? Describe various steps involved in the construction of r-DNA.
- 16. (a) What is seed dormancy? Describe the causes and methods of breaking seed dormancy (OR)
 - (b) Describe the role of growth regulators in horticulture