

Seat No: \_\_\_\_

No of printed pages: 4 [E+G]

[37] E+16

## SARDAR PATEL UNIVERSITY

B. Sc. (Semester III) Examination (2021-22)

27d becember, 2021 03:00pm to 05:00 pm US03CBOT22 BOTANY

(Plant Anatomy, Physiology, Taxonomy and Bioinformatics)

TOTAL MARKS: 70

Instructions: There is total four questions.  $\ast$  Answer all sub questions in continuation.  $\ast$ 

U:I		Wultiple choice questions.	110
	(01)	is an example of lateral Meristem.	en
		(a) intercalary (b) root apical (c) cork cambium (d) shoot apical	16%
	(02)	Sclerids are present in the nuln of	10
		(a) Carrot (b) Rye (c) Wheat (d) Guava	KAld
	(03)	Aerenchyma is present in which plant?	1+1
		(a) Nymphaea (b) Neem (c) Banyan (d) Nerium	at
	(04)	In which of the following, stomata are present only on lower surface?	
		(a) apple and mulberry type (b) potato type (c) oat type (d) water lily type	
	(05)	Backane disease is related with	
		(a) Ethylene (b) Cytokinin (c) Auxin (d) Gibberellin	
	(06)	Which of the following is gaseous hormone?	
		(a) Abscisic acid (b) Auxin (c) Ethylene (d) all of the above	
	(07)	Which of the following is an example of Liliaceae?	
		(a) Asparagusracemosus (b) Ricinus communis (c) Ixora coccinia (d) Acacia	
		nilotica	
	(08)	Gynobasic style is present in which plant family?	
	70.01	(a) Liliaceae (b) Labiatae (c) Euphorbiaceae (d) Meliaceae	
	(09)	Swiss prot is a	
		(a) protein sequence database (b) structural database	
	(4.0)	(c) nucleic acid database (d) carbohydrate database	
	(10)	Abbreviated name of nucleic acid database is	
0.0		(a) NDB(b) NADB(c) NUDB(d) NUADB	
Q:2	(01)	Answer as stated.	[80]
	(01)	Growth in Chara is an example of theory of meristematic tissue system.	
	(02)	Annular thickening is seen in sieve tube cell. (True or false?)	
	(03)	Excess production of auxin leads to seedless fruit. (True or false?)	
	(04)	Root is a major source of cytokinin synthesis. (True or false?)	
	(05)	Polyalthia (asopalav) is an example of plant family.	
	(06) (07)	Aloe vera is an example of Liliaceae family, in which number of carpels are	
		Sequence database include carbohydrate sequence data. (True or false?)	
	(80)	Bioinformatics does not include mathematics and statistics branches. (True or false?)	
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See page 2 over leaf



(07) Explain about Genomics and Proteomics branches of bioinformatics.(08) Write brief note on biological database retrieval system.

one sub family of Leguminosae.

