

DQ-003-1016047 Seat No. _____

B. Sc. (Sem. VI) (CBCS) Examination

April - 2022

B-602 : Botany

(Plant Physiology, Biochem, Biosta, Micro, Biodiversity) (Old Course)

Faculty Code: 003

Subject Code: 1016047

Time : $2\frac{1}{2}$ Hours] [Total Marks: 70 Instructions: (1) This question paper contains five question. all are compulsory. (2)Draw neat and labeled diagrams wherever necessary. (3)Figure to the right indicate marks. 1 (A) Objective: 4 Optimum temperature for seed germination Which fungus gibberellins was first isolated? (2)The pentose phosphate pathway the major products (3)Write full form: ppp. (4) (B) Answer in brief: (Any One) 2 Give the two function of auxins. (2)Write a name of only different phase of germination. Answer in detail : (Any One) 3

(1)

(2)

ethylene.

Describe the any six physiological function of

Explain six physiological function of cytokinins.

	(D)	Wri	te a note on : (Any One)	5		
		(1)	Describe the pentose phosphate pathway.			
		(2)	Explain the Auxin.			
2	(A)	Objective:				
		(1)	Define: enzyme			
		(2)	What is basic unit of protein?			
		(3)	Phytochrome is used in			
		(4)	What is alkaloid?			
	(B)	Ans	swer in brief : (Any One)	2		
		(1)	Write note on properties of lipids.			
		(2)	Write the two function of carbohydrates.			
	(C)	Ans	swer in detail : (Any One)	3		
		(1)	Explain the information about conjugated pa	rotein.		
		(2)	Describe the properties of alkaloids.			
	(D)	Wri	te a note on : (Any One)	5		
		(1)	Give the primary structure of protein.			
		(2)	Describe the competitive inhibition of enz	ymes.		
3	(A)	Obj	ective :	4		
		(1)	Define: mode.			
		(2)	Define :median.			
		(3)	Write the types of central tendency.			
		(4)	Define: mean.			
	(B)	Answer in brief : (Any One)				
		(1)	Write note on cluster sampling.			
		(2)	Write the chi-square test.			
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		(1)	Explain	merits	of mod	le.				
			Calculat 11, 13,				tion of	following	ng	
	(D)	Write	e a note	on : (Any O	ne)				5
		(1) Calculate the mean, median, mode, SD, and coefficient variation from following data:						and		
	Class	int <i>erval</i>	10-19	20-29	30-39	40 – 49	50-59	60-69	70 – 79	
	Freq	uency	6	18	10	15	5	4	1	
			What is and how	_		_	n degre	ee of fre	edom	
4	(A)	Objec	ctive:							4
		(1)	What is	the sh	nape of	E.coli?				
		(2)	Name to	wo bact	teria us	sed in v	vinegar	indust	ry.	
		` '	Curd an		ter are	produ	iced wi	ith the	use	
		(4)	What is	solid	media?					
	(B)	(B) Answer in brief : (Any One)							2	
		(1)	Write th	ne on b	atch cu	ılture.				
			Write th processin		wo app	lication	of micr	robes in	food	
(C) Answer in detail : (Any One)								3		
		(1)	Describe	the gr	ram sta	ining r	$\mathbf{nethods}$	s.		
		(2)	Explain	the co	ncept o	f pure	culture			
	(D)	Write	rite note on : (Any One)						5	
(1) Describe the ultra structure of E.coli										
		(2)	Describe	the me	thod of	steriliza	tion in	microbio	ology.	
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(C) Answer in detail : (Any One)

5	(A)	Objective:				
		(1) What is species diversity?				
		(2) How is biodiversity important for ecosystem functioning?				
		(3) Which wild life sanctuary is located in rajasthan?.				
		(4) Define:biodiversity.				
	(B)	Answer in brief : (Any One)	2			
		(1) Write the note on β -diversity				
		(2) Give significance of seed dormancy.				
	(C)	Answer in detail : (Any One)				
		(1) Explain causes for seed dormancy.				
		(2) Give the detail wild life sanctury.				
	(D)	Write notes on : (Any One)				
		(1) Describe the conservation strategies of biodiversity of plant in their natural habitat.				
		(2) Explain the different zone of biosphere reserves.				