## B.Sc. (Part-I) (Semester-I) Examination BOTANY

## Diversity & Applications of Microbes and Cryptogams

Time	e : T	hree	Hou	nrs]		[M	faximum Marks: 80		
Note	: (1)		There are seven questions in all.						
		(2)	Q. 1	No. 1 is compulsory and carries	8 marks	S.			
		(3)	Q. 1	Nos. 2-7 carry equal marks.					
		(4)	Dra	w neat and well labelled diagra	ms wher	ever necessary.			
1.	(A)	Fill	in th	in the blanks:					
		(i)	Microorganism which grows on dead and decaying organic matter is known.						
		(ii)	The	air bladders are present in _		_ algae.	1/2		
		(iii)	Wh	ite rust of crucifer is caused b	оу		1/2		
		(iv)	Gen	nma cup is found in	_•		1/2		
	(B)	Cho	ose	the correct alternatives (MCQ	):				
		(v)	) Male Sex Organ in Chara is known as :						
			(a)	Nucule	(b)	Spermatium			
			(c)	Globule	(d)	Carpogonium	1/2		
		(vi)	Tele	eutospores in Puccinia are	·				
			(a)	One celled	(b)	Two celled			
			(c)	Three celled	(d)	Four celled	1/2		
		(vii)	The	spore producing organ in Equisetum is:					
			(a)	Sporocarp	(b)	Strobilus			
			(c)	Synangium	(d)	Zoosporangium	1/2		
		(viii)	AID	OS disease is caused by					
			(a)	HIV	(b)	TMV			
			(c)	Bacteria	(d)	Fungi	1/2		
	(C)	Ans	wer	in one sentence:					
		(ix)	Wh	at is Fertilization?			1		
		(x)	Wh	ich Fungus causes Tikka Dise	ase of C	Groundnut?	1		
		(xi)	Wh	at is Protostele?			1		
		2) (2		at are Lichens?			1		
2.	Exp								
	(a)			characters of Cryptogams.			4		
	(b)			e of TMV.			4		
	(c)	Role	e of	microbes in Agriculture.			4		

		6.11						
	(d)	Cell structure of Bacteria	4					
	(e)	Autotrophic Bacteria	4					
	(f)	Role of microbes in medicine.	4					
3.	Des	cribe in detail structure of Thallus and Asexual Reproduction in Oedogonium.	12					
		OR						
	Exp	lain:						
	(g)	Thallus structure in Sargassum	6					
	(h)	Sex Organs in Chara	6					
4.	Exp	Explain:						
	(i)	Sex Organs in Alhugo	4					
	(j)	Telial stage in Puccinia	4					
	(k)	General characters of Deuteromycotina	4					
		OR						
	(1)	Asexual Reproduction in Aspergillus	4					
	(m)	Uredial stage in Puccinia	4					
	(n)	Economic importance of Lichens.	4					
5.	Exp	Explain:						
	(0)	L.S. of Antheridiophore of Marchantia	6					
	(p)	L.S. of Capsule in Funcria	6					
		OR						
	(q)	L.S. of Antheridial branch in Funaria	6					
	(r)	L.S. Sporophyte of Marchantia	6					
6.	Exp	Explain:						
	(s)	Types of Siphonostele in Pteridophytes	4					
	(t)	L.S. of Strobilus in Equisetum	2					
	(u)	T.S. of Marsilea Petiole	4					
		OR						
	Dra	w well labelled diagrams only:						
	(v)	T.S. Aerial Stem of Equisetum (Internode)	2					
	(w)	T.S. Rhizome of Marsilea	2					
	(x)	H.L.S. Sporocarp of Marsilea	2					
7.	Exp	Explain:						
	(y)	Economic Importance of Algae in Food	4					
	(z)	Black arm of cotton	4					
	(a)	Types of Mycorrhiza	4					
		OR						
	(b)	Role of Fungi in medicine	7					
	(c)	Tikka disease of Groundnut	7					
	(d)	Harmful Aspects of Algae.	4					

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