This question paper co	ontains 4 printed pages]				
		Roll No.			
S. No. of Question Pap	er : <b>8331</b>				
Unique Paper Code	LSPT-304:216351	C			
Name of the Paper	: Biodiversity-I Micro	: Biodiversity-I Microbes			
Name of the Course	: B.Sc. Life Science				
Semester	: <b>III</b>				
Duration: 3 Hours		Maximum Marks	: 75		
(Write your	Roll No. on the top immedia	itely on receipt of this question paper.)			
	Attempt Five qu	uestions in all.			
	Question No. 1	is compulsory.			
	All questions car	ry equal marks.			
1. (A) Fill in the l	olanks:	10×1	=10		
(î)	and	are the main pigments present in Cynophya	ean		
algae.					
(ii) Phane	roplasmodium is formed in	ı			
(iii)	is commonly kno	own as Reindeer moss.			
(iv)	is a resting spore v	which is formed by the fusion of true gametan	gia.		
(v) The s	mallest bacteria is	It is 0.2 µm in size.			

	( 2	)	8331			
	(vi) TMV was first crystallized by	III 1933.				
	(vii) is a fungus used for flavouring cheese.					
	(viii) When androsporangia are borne on	oogonial filaments in Oedogonium it i	s known			
	as					
	(ix) Morphologically active form of ba	acteria in nodule is known as				
	(x) The outside covering of cleistothe	ecium is known as				
(È)	Match the following:		5×1=5			
	Palmella stage	Polysiphonia				
	Floridean starch	Chlamydomonas				
	Agaricus	Cephalodia				
	Puccinia	gills				
	Lichens	aecia				
Wri	te short notes on any three:		3×5=15			
(a)	Bacteriophage					
(b)	Discuss the two stages of infection on wheat leaf caused by Puccinia.					
(c)	Nutrition in bacteria.					
( <i>d</i> )	) Sexual reproduction in <i>Oedogonium</i>					
(e)	Ecological and economic importance of	flichens.				

2.

3.	Drav	w well labelled diagram of any five:	5×3=15
	(a)	V.S. of Apothecium of lichens	
	(b)	V.S. of Brassica leaf showing the conidial stage of Albugo.	
	(c)	Development of endospore in bacteria	
	(d)	Bisexual conceptacle of Fucus (V.S.)	
	(e)	Oedogonium thallus showing dwarf male.	
	(f)	E.M. of Dolipore septum.	
4.	Diff	erentiate between any five:	5×3=15
	(a)	Aphanoplasmodium and Phaneroplasmodium	
	(b)	Conjugation and Transformation	
	(c)	Primary and Secondary mycelium.	
	(d)	Tetrasporophyte and Carposporophyte	
	(e)	Gram +ve and Gram -ve bacteria	
	(/)	Archaebacteria and Eubacteria.	
5.	(a)	Justify the statement 'viruses can be classified as living as well as non-living	g', 5
	(b)	Name any one human fungal diseases studied by you in the class. Mention th	eir name,
		causal organism, symptoms and control measures.	. 5
	(c)	Discuss the post-fertilization changes in Polysiphonia.	5
			P.T.O.

(4) 8331

6. (a) Discuss anisogamous and isogamous mode of reproduction in Chlamydomonas.

Or

Discuss Physarum as an experimental tool.

- (b) Discuss the symptoms, transmission and management of Vein clearing disease. 5
- (c) Discuss the symptoms, transmission and management of Crown gall disease. 5

8331