	Drav	w well labelled diagram of the following	*******	
	(P)	L. S. of Sporophyte in Marchantia.	4	
	(Q)	L. S. archegonial branch of Funaria.	4	
	(R)	L. S. Antheridiophore in Marchantia.	4	
6.	Explain:			
	(A)	L. S. cone in Equisetum.	6	
	(B)	T. S. rhizome in Marsilea.	6	
		OR		
,	(P)	T. S. stem in Equisetum.	6	
	(Q)	H. L. S. of Marsilea sporocarp.	6	
7.	Explain the following:—			
	(A)	Symptoms and control measures of TM	V.	
			4	
	(B)	Role of Fungi in Food.	4	
	(C)	Economic importance of algae with refere	ence	
		to agriculture.	4	
		OR		
	(P)	Role of Fungi in medicine.	4	
	(Q)	Endomycorrhiza.	4	
	(R)	Tikka disease of Groundnut.	4	
A D	402	4	e e e	

First Semester B. Sc. (Part-1) Examination .					
BOTANY					
(Diversity and Applications of Microbes and Cryptogams)					
P. Pages: 4					
Time: Three Hours] [Max. Marks: 80					
Note: (1) There are Seven questions in all. (2) Question No. One is compulsory ar carries Eight marks. (3) Question Nos. Two to Six carry equipmarks. (4) Draw well labelled diagrams wherevenecessary.	al				
(A) Fill in the blanks:— (i) Algal and Fungal members together form a thallus known as (ii) L. Gland formula and formula					
(ii) In Chara, a female reproductive organis known as	1/2				
(iii) Tikka disease of groundnut is caused b	y 1 2				
(iv) Gemma cups are found in	$\frac{1}{2}$				
(B) Choose the correct alternative (MCQ) :-					
(v) are seed bearing plants.					
(a) Algae (b) Phanerogam	S				
(c) Bryophytes (d) Fungi	$\frac{1}{2}$				
AR-483 P.T.C).				

(vi) Spore producing organ in Marsilea is	is OR
(a) Strobilus (b) Sporocarp	(P) General characters of cryptogams. 4
(c) Spike (d) Cone	$\frac{1}{2}$ (Q) Nutrition in Bacteria. 4
(vii) The Primary host of Puccinia is	(R) Role of Microbes in Industries. 4
(a) Wheat (b) Cotton	3. Give detail account of sexual reproduction in
(c) Groundnut (d) Tobacco	$\frac{1}{2}$ Macrandrous species of Oedogonium . 12
(viii) The Stele Present in Equisetum stem i	is OR
(a) Protostele.	Explain :—
	(a) Thallus structure of Sargassum . 6
(b) Ectophloic siphonostele.	(b) Sex organs in Batrachospermum. 6
(c) Amphiphloic siphonostele.	4. Explain the following:—
(d) Solenostele.	$\frac{1}{2}$ (A) Uredial stage in Puccinia . 4
(C) Answer in one sentence:—	(B) Asexual reproduction in Albugo . 4
(ix) What is Mycorrhiza?	1 (C) Crustose Lichen. 4
(x) Which types of rhizoids are present in	
Marchantia ?	
(xi) What is Heterospory?	(P) Asexual reproduction in Aspergillus. 4
(xii) Define Oogamy.	(Q) Pycnidial stage in Puccinia . 4
2. Explain the following:—	(R) Economic importance of Lichens. 4
(A) Structure of HIV.	5. Explain the following:—
	(A) Gemma cup. 4
	(B) Affinities of Bryophytes with Algae. 4
(C) Role of Microbes in Medicine.	4 (C) Antheridial branch in Funaria. 4
AR-483 2	AR-483 3 P.T.O.