[This question paper contains 4 printed pages.]

8163

Your Roll No.

HS

Subsidiary for B.Sc. Honours

I Examination

BOTANY - Paper I

(Plant Diversity)

(NC: Admissions of 2003 and onwards)

Time: 3 hours

Maximum Marks: 50

(Write your Roll No. on the top immediately on receipt of this question paper.)

Question 1 is compulsory.

Attempt any four from the rest of the questions.

All questions carry equal marks. All parts of a question should be answered together.

- 1. Give the botanical nines and mention the plant part used in: (1×10=10)
 - (i) A fibre yieldinplant
 - (ii) A medicinal pit
 - (iii) A spice
 - (iv) A beverage

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(v)	Source of sugar	
(vi)	Timber	
(vii)	A vegetable	
(viii)	A source of essential oil	
(ix)	A cereal	
(x)	A legume	
2. Write	e short notes on:	(2½×4=10)
(i)	Spore dispersal in Equisetum/Fun	aria
(ii)) Xerophytic characters of Pinus	
(iii)) Rhizophore	
(iv)) Sexual reproduction in Spirogyra	
	w neat labelled diagrams of any fowing:	four of the (2½×4=10)
(i	i) Bacteriophage	
(ii	i) Fern prothallus	
(ii	i) L.S. archegoniophe of Marchant	ia
(iv	v) V.S. leaf through dosorus	
(\	v) Trichome of <i>Nost</i>	

4. What are the means of genetic recombination in bacteria? (10)

OR

Enumerate the life cycle of a disease causing fungus.

- 5. (a) The sporophyte of Funaria is partially independent.

 Comment.
 - (b) Bryophytes are known as the amphibious of plant kingdom. Comment.
 - (c) Enumerate the characteristic features of Pteridophytes. (3+3+4=10)
- 6. Discuss the contributions of any five of the following:- (2×5=10)
 - (i) W.M. Stanley
 - (ii) F. Griffith
 - (iii) C. Linnaeus
 - (iv) Lederberg and Tatum
 - (v) Frankel and Conrat
 - (vi) Hershey and Chase

•	Fill in	the bla	inks :-		. (1×	10=10)
		Virus		double	stranded	RNA
	(ii)		howing left		uelical struc	ture is
	(iii)	The ce	ll wall in fu	ungi is ma	de of	 ·
	(iv)	Elaters	are seen ii	n	<u> </u>	
	(v)	The wo	od in <i>Pinus</i>	is	and	*
	(vi)		axonomic o	category	"Order" e	nds in
•	(vii)	Agar A	Agar is prod	uced by '	 •	
	(viii)	Reserv	e food mate	rial in fu	ngi is	 ·
	(iv)	Ponds	ilk is the o	amman na	ma of	