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## BOTANY PAPER - I : BOT - 121 Higher Cryptogams (12145)

	P.	Pag	es	:	3
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Time: Two Hours

Max. Marks: 40

8

Inaterrations	4.4	0 1111-4
Instructions	IO	Candidates

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1. Do not write anything on question paper except Seat No.

Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.

3. Students should note, no supplement will be provided.

4. Draw neat labelled diagrams wherever necessary.

5. All questions are compulsory.

1.	So	lve any eight.						
	i)	Bryophytes prefer to g	row.					
		a) In dry soil	b)	In water				
		c) On dry rock	d)	At moist and shady pla	aces			
	ii)	Spore mother cell in b	ryophytes	is				
100		a) Haploid	b)	Diploid				
		c) Triploid	d)	Tetraploid				
	iii)	Elaters of Equisetum a	rise from					
		a) Epispore	b)	Middle layer				
		c) Exospore	d)	Endospore				
	iv)	) Distinct columella is present in the capsule of						
		a) Riccia	b)	Funaria				
		c) <u>Marchantia</u>	d)	None of these				
	v)	Riccia belongs to orde	r	÷ 1				
		a) Ricciales	b)	Marchantiales				

d)

Anthocerotales

	VI)	Sp	ores of Funana ge	minate to p	noduce	
		a)	Buds	b)	Calyx	
		c)	Protonema	d)	None	
	vii)	Th	e common term for		CI IS	
		a)	Mosses	b)	Liverworts	
		c)	Hornworts	d)	Thornworts	
*		١ ٥ ٥	eta is present in the	sporophyt	e of	
	VIII		Riccia	b)	Anthoceros	-
		c)	<u>Funaria</u>	d)	None of these	
	iv)		is also know	wn as peat i	moss.	•
	18)		Polytrichum	b)	Sphagnum	
		31.35	Pogonatum	d)	None of these	
	VI		is a nteridoph	vte used as	biofertilizer in rice fields and	
	X)	sh	nows good tolerand	e against h	eavy metals.	
			Azolla	b)	Selaginella	
		W1050	Lycopodium	d)	<u>Sphagnum</u>	
2.	At	tem	pt any two.			8
	i)	St	tructure of antheric	lia in <u>Riccia</u>		
	ii)	R	ole of bryophytes i	n soil conse	ervation.	
	ili	) F	unction of elaters.			
	iv	) H	eterospory in <u>Sela</u>	ginella.		
	v)	٧	egetative reproduc	tion in <u>Fun</u>	aria.	
	vi	) M	legaspore of <u>Selag</u>	inella.	in the second	
3.	Α	ttem	npt any two.			8
٠	а	) D	Distinguishing char	acters of He	epaticae.	
	b	) S	Structure of Archeg	onium in <u>Fu</u>	<u>ınaria</u> .	
	С	) E	External structure o	of <u>Selaginel</u>	<u>a</u> sporophyte.	
			*			

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4. a) Attempt any two.

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- Sketch label and describe the internal structure of Equisetum stem.
- ii) Germination of microspore and development of male gametophyte in Selaginella.
- iii) Distinguishing features of Pteridophytes.
- b) Protonema in Funaria.

2

 What is alternation of generation? Describe alternation of generation with reference to <u>Riccia</u>. 8

OR

Give an account of classification of Pteridophytes by G.M.Smith upto classes with at least two examples of each class.

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