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Cod	le N	o.: 20207 E	Sı	ub. Code: SEBO 5 C			
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023							
		Fifth S	Semes	ster			
		Во	tany				
Major Elective - II — HORTICULTURE AND PLANT BREEDING							
(For those who joined in July 2017-2019)							
Time	: Thi	ree hours		Maximum: 75 marks			
PART A — $(10 \times 1 = 10 \text{ marks})$							
Answer ALL questions.							
•	Choo	ose the correct an	swer	:	:*:		
1.	Bryophyllum is propagated by						
	(a)	stem	(b)	leaves			
	(c)	root	(d)	seeds			
2.	T-budding is otherwise called						
		patch budding		chip budding	- 6		

schield budding (d) flute budding

(6 Pages)

(c)

٥.	Plan	Plants used to grow in rockery						
	(a)	water plants						
	(b)	mangrove plants						
	(c)	shade loving plants						
- T-	(d)	xerophytic plants						
1.	Technique involved in bonsai							
	(a)	budding	(b)	wiring				
	(c)	layering	(d)	defoliation				
5.	It is	a weedicide						
	(a)	IAA	(b)	NAA				
	(c)	2,4 D	(d)	IBA				
6.	Which one of the following is an organic manure?							
	(a)	Green manure	(b)	Farmyard manure				
	(c)	Vermicompost	(d)	All the above				
7.	Removal of stamens from a bisexual flower							
	(a)	Pollination	(b)	Emasculation				
	(c)	Hybridization						
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- 3. In mass selection method, the time taken to release a new variety
 - (a) 10 years
- (b) 5 years
- (c) 8 years
- (d) 20 years
- 9. Mutation breeding was first initiated by
 - (a) Muller
- (b) Stadler
- (c) Nicolson
- (d) Howard
- 10. Colchicine is used to
 - (a) Chrmosome doubling
 - (b) Chromosome reduction
 - (c) Nullisomic stage
 - (d) None of these

PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions choosing either (a) or (b). Each answer should not exceed 250 words.

11. (a) Write notes on air layering.

Or

(b) Write an essay on the importance of horticulture.

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12. (a) Briefly explain the technique involved in making bonsai plant.

Or

- (b) Write about any two garden implements used in horticulture.
- 13. (a) Explain the layout of a kitchen garden with suitable diagram.

Or

- (b) Give an account on transplantation methods.
- 14. (a) What are the objectives of plant breading?

Or

- (b) Briefly explain about pureline selection.
- 15. (a) Describe briefly about mutagens.

Or

(b) Write an essay on polyploidy breeding.

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[P.T.O.]

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions choosing either (a) or (b). Each answer should not exceed 600 words.

16. (a) Write an account on grafting.

Or

- (b) Enumerate the advantages and disadvantages of vegetative reproduction.
- 17. (a) How do you establish terrarium Explain?

Or

- (b) Give an account on construction of a lawn,
- 18. (a) Write an essay on role of plant growth hormons in horticulture.

Or

- (b) Give a detailed account on types of organic manure,
- (a) Write elaborately about hybridization technique.

Or

(b) Describe in detail about mass selection.

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20. (a) Discuss about the different features of mutation breeding.

Or

(b) Write an essay on breeding for disease resistance.

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