D 70951		(Page	s:2)	Name
				Reg. No
THIRD SEMESTER M.Sc. DEGREE (REGULAR) NOVEMBER 2019				EXAMINATION
		General Bi	otechology	
	(GB3C3—PLANT B	IOTECHNOLOGY	
Time	: Three Hours			Maximum: 36 Weightage
		Section	on A	
		Answer all Each question carrie	7	
1.	Yeast extract.	2.	Liquid culture.	
3.	Organ culture.	4.	In vitro pollination	
5.	Endosperm culture.	6.	E.coli based vectors	5.
7.	Cryopreservation.	8.	Assymetric hybrid.	
9.	Microprojectile.	10.	Antibiotic selection	
				$(10 \times 1 = 10 \text{ weightage})$
		Section	on B	
		Answer any sev	en questions.	
		Each question carrie	s a weightage of 2.	
11.	Browning.			
12.	Genetic stability assessment.			
13.	Callus culture.			
14.	Somaclones.			
15.	Secondary metabolite production.			
16.	Cell viability measurement.			
17.	In vitro germplasm conservation.			

18. Binary v/s cointegrate vectors in A. Tumefaciens.

19. *E.coli* based vectors.

20. Gus.

 $(7 \times 2 = 14 \text{ weightage})$

Turn over

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Section C

Answer any **two** questions. Each question carries a weightage of 6.

- 21. Explain agrobacterium mediated transformation of plant cells.
- 22. Describe the callus regeneration pathway of regeneration and its merits and demerits.
- 23. Explain the pathway of somatic embryogenesis and its application.

 $(2 \times 6 = 12 \text{ marks})$