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QP Code: RM22MSC013	Reg.							
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## **GIET UNIVERSITY, GUNUPUR – 765022**

AR 22

M. Sc. (First Semester) Examinations, March – 2023

## 22BTPC103 - Plant and Animal Biotechnology

(Biotechnology)

Time: 3 hrs			Maximum: 70 Marks				
111110	(The figures in the right hand margin indicate marks.)	Maxii	iiuiii. /(	J WILLIAM			
PAR	T-A	$(2 \times 10 = 20 \text{ Marks})$					
Q.1.	Answer all questions	(	CO#	Blooms Level			
a.	What is ribosome-inactivating proteins?	(	CO 1	K2			
b.	What do you mean by solidifying agents?	(	CO 1	K1			
c.	Define osmoticum.	(	CO 1	K1			
d.	Explain on cybrids.	(	CO 2	K2			
e.	What are the importance of cryoprotectants?		CO 2	K3			
f.	Define trypsinization.		CO 1	K2			
g.	What is a binary vector system?		CO 3	K2			
h.	h. Define cat gene.			K1			
i.	i. Write on stages of vaccine production.		CO 4	K2			
j.	Define transcriptomics.	CO 4		K2			
DAD	T R	$(10 \times 5 = 50 \text{ Marks})$					
PART – B			3 – 30 1	viai KS)			
Answer ANY FIVE questions		Marks	CO#	Blooms			
			go 4	Level			
2. a.	Give an account of constituents of the plant tissue media.	7	CO 1	K1			
b.	Explain on sterilization of non-living articles.	3	CO 1	K1			
3.a.	Describe the method of isolation and culture of protoplasts.	7	CO 1	K2			
b.	How homozygous plants are produced?	3	CO 1	K1			
4. a.	Give an account of Agrobacterium-mediated gene delivery.	7	CO 2	К3			
b.	Write on reporter genes.	3	CO 2	K2			
5.a.	Describe in details on cryopreservation of sperms.	7	CO 3	K1			
b.	Explain on super ovulation.	3	CO 3	K1			
6. a.	Illustrate on DNA fingerprinting techniques.	7	CO 3	K3			
b.	Write on molecular marker.	3	CO 4	K2			
7.a.	How insect resistance crop plant are produced using genetic engineering?	7	CO 4	K2			
b.	Write short notes on secondary metabolite.	3	CO 3	K1			
8. a.	How detection of meat adulteration is being made by DNA based methods?	7	CO 4	K2			
b.	Give an account of animal cloning.	3	CO 2	K2			
	End of Paper						