Exam Date & Time: 01-Oct-2020 (10:00 AM - 01:45 PM)



## PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins + Grace Time: 15mins

## BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

## **Branch - BOTANY**

## CORE ELECTIVE PAPER - II - PLANT TISSUE CULTURE [14BOU25A]

Marks: 75		Duration: 225 mins.	
	SECTION A		
Answer all the questions.			
1)	Define Redifferenciation.	(2)	
2)	What is cell suspension culture?	(2)	
3)	Write two applications of auxins.	(2)	
4)	Comment on Jasmonates.	(2)	
5)	Define organogenesis.	(2)	
6)	What is Cybrids?	(2)	
7)	Write any two advantages of meristem culture.	(2)	
8)	Define cryoprotectant.  What is bioreators?	(2)	
9)	What is oforeators?  What are the types of metabolites?	(2)	
	SECTION B	(2)	
Answer all the questions.			
11)	Discuss about embryo culture and its application.		
a)		(5)	
[OR] b):	Explain about types of tissue culture media.	(5)	
12)	Explain the chemical nature and mode of action of Abscissicacids.	(5)	
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14BOU25A

a)		
[OR] b).	Write the commercial application of Gibberllins.	(5)
13)	Discuss about callus culture and its application.	(5)
a) [OR] b)	Elaborate in detail about somatic hybridization.	(5)
14)	What are the different stages of micropropogation?	
		(5)
a) [OR] b)	Briefly explain methods of cryopreservation techniques.	(5)
15)	Write detailed notes on cell immobilization techniques.	
a) [OR] b)	Discuss in detail about production of secondary metabolites of plants.	(5)
Answer 3	SECTION C out of 5 questions.	
16)	Write an essay on sterilization techniques.	(10)
17)	Explain the bioassay, chemical nature, synthesis and mode of actions of cytokinins.	
18)	How will you isolate protoplast from leaves with neat sketch?	
19)	Give an account on production of synthetic seeds.	(10)
20)	Write note on impact of tissue culture industries in India.	(10)

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