Exam Date & Time: 26-Sep-2020 (10:00 AM - 01:30 PM)



14MBU24

## **PSG COLLEGE OF ARTS AND SCIENCE**

Note: Writing 3hrs: Checking & Inserting Image : 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

## Branch - MICROBIOLOGY APPLIED BIOTECHNOLOGY [14MBU24]

## Duration: 210 mins. Marks: 75 SECTION A Answer all the questions. Cloning. 1) . (2)Ri plasmid. 2) (2)Cell Culture. 3) (2)Embryonic stem cell. 4) (2)HGH. 5) (2)Interferon. 6) (2)RFLP. 7) (2)OLA. 8) (2)Monoclonal Antibody. 9) (2)Gene Therapy. 10) (2) **SECTION B** Answer all the questions. Write short notes on Ti Plasmid. 11) (5) a) Give an account on Plant Tissue Culture. [OR] (5) **b**) Outline the steps involved in development of Transgenic cattles. (5) 12)

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a) [OR] b)	How will you establish transgenic mice by DNA microinjection method?	(5)
13)	Outline the production of recombinant Human Growth hormones?	
a)		(5)
[OR] b)	Give a short notes on isolation of interferons.	(5)
14)	Write about Aso test and its principle.	
a)		(5)
[OR] b)	Write a short note on FISH.	(5)
15)	What are subunit vaccine? Explain.	
a)		(5)
[OR] b)	Give a brief account on the concepts of gene therapy.	(5)
	SECTION C	
Answer 3, 16)	out of 5 questions.	1.4
10) .	How are insect resistance plants engineered?	(10)
17)	Illustrate the development of Embryonic stem cell method.	(10)
18)	Comment on the ethical issued on patenting of biotechnology inventions and add a note on IPR.	(10)
19)	Discuss in detail about RFLP and its used of analysis.	(10)~
20)	Explain in detail about the production of monoclonal antibodies and its applications.	(10)

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