

11/28/2020 19MBP21

Exam Date & Time: 28-Sep-2020 (02:00 PM - 05:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

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

MSc DEGREE EXAMINATION MAY 2020 (Fourth Semester)

Branch - APPLIED MICROBIOLOGY APPLIED BIOTECHNOLOGY [19MBP21]

Marks: 75 Duration: 210 mins.

SECTION - A Answer all the questions.		
2)	Protropin is an Engineered (i) Biopolymer (ii) antibiotic (iii) monoclonal antibody (iv) growth hormone	(1)
3)	Virus resistant transgenic plants can be developed by the expression of (i) Cowpea trypsin inhibitor (ii) Crystalline toxin protein (iii) Defective movement protein (iv) Snowdrop lectin	(1)
4)	To produce plants that are homozygous for all traits, the best choice is (i) Protoplast culture (ii) Cell suspension culture (iii) Anther and pollen culture (iv) apical meristem culture	(1)
5)	Which of the following mice are used for immunization in the hybridoma technology (i) Swiss mice (ii) Balb/c mice (iii) Out bred mice (iv) Indigenuos mice	(1)
6)	Transgenic cattle milk containing human proteins, which may help in the treatment of (i) Rheumatoid arthritis (ii) Huntington's disease	(1)

Highlight the uses of stem sells in animal gene transfer techniques.

Illustrate an account on RFLP analysis.

a) [OR]

b)

14)

(5)

(5)

a) [OR] Evaluate about the principle of Micro array and mention their applications. (5) Produce an account on GMO and justify their impact in the environment. 15) (5)a) [OR] Comment on Patenting of genes and life forms. (5) b) SECTION - C Answer all the questions. 16) Critically appraise the methods of production of engineered Monoclonal antibodies. (8) a) [OR] Determine how novel recombinant antibiotics produced. Explain. (8) b) Elucidate the development of insect resistance in plants. 17) (8) a) Analyze the role of various molecular markers used in rDNA technology. [OR] (8) b) Outline the process of development of Transgenic mice. Give their applications. 18) (8) a) Compare and analyze the techniques used in animal cell culture. [OR] (8) Assess the methods of Gene therapy? 19) (8) a) Justify the advantages of Gene expression profiling done. [OR] (8) b) 20) Comment on the concepts and conditions of IPR. (8) a) Criticize the use of genetically modified organism used for biodegration. [OR] (8)

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