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## NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow M.Tech

## FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021) (Objective Type)

Subject Code: AMTBT0217

**Subject: Cell & Tissue Culture Techniques** 

Max. Mks. : 40

Time : 70 Minutes

## **General Instructions:**

All questions are compulsory.

Question No- 1 to 5 are objective type question carrying 2 marks each.

Question No- 6 to 20 are also objective type/Glossary based question carrying 2 marks each.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Туре	Difficulty	Correct	Option1	Option2	Option3	Option4
1	The growth of animal cells in vitro in a suitable culture medium is called		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	Animal cell culture	Gene expression	Transgenesis	Plant tissue culture	Animal cell culture
2	When primary culture is passaged or sub-cultured, it becomes		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	secondary culture or cell line	secondary culture or cell line	transformants	recombinants	none
3	The MTT is a…………… …method		Single Choice Questions	Single Choice Questions	2		Single Choice	Smart	colorimetric	UV based	colorimetric	fluorescent	Infra red
4	The growth of plant tissues in artificial media is called		Single Choice Questions	Single Choice Questions	2		Single Choice	Smart	Plant tissue culture	Gene expression	Transgenesis	Plant tissue culture	Cell hybridization
5	Agar agar, used in plant tissue culture is extracted from		Single Choice Questions	Single Choice Questions	2		Single Choice	Brilliant	an algae	a fungi	a bacteria	an algae	a virus
6	Phenyl red in culture medium act as indicator		Glossary I	Glossary I	2		Single Choice	Brilliant	pH	Filtration	pH	antibiotics	
7	Media is sterilized by the process of		Glossary I	Glossary I	2		Single Choice	Smart	Filtration	Filtration	pH	antibiotics	
8	Addition of in culture media prevent contamination.		Glossary I	Glossary I	2		Single Choice	Brilliant	antibiotics	Filtration	antibiotics	рН	
9	The human fibroblast is a classical example of		Glossary II	Glossary II	2		Single Choice	Brilliant	established primary cell line	DMSO	established primary cell line	trypsin	
10	Frequently used enzymes in tissue disaggregation is		Glossary II	Glossary II	2		Single Choice	Smart	trypsin	DMSO	established primary cell line	trypsin	
11	Example of cryoprotective agent is		Glossary II	Glossary II	2		Single Choice	Smart	DMSO	DMSO	established primary cell line	trypsin	
12	Large size vessels used for industrial production of proteins		Glossary III	Glossary III	2		Single Choice	Brilliant	bioreactor	green	electroporation	bioreactor	
13	The color of MTT dye is		Glossary III	Glossary III	2		Single Choice	Smart	green	green	electroporation	bioreactor	
14	One of the example of physical method of transfection is		Glossary III	Glossary III	2		Single Choice	Smart	electroporation	green	electroporation	bioreactor	
15	What is the name of naturally occurring Auxin in plant		Glossary IV	Glossary IV	2		Single Choice	Brilliant	Indole 3-acetic acid (IAA)	Indole 3-acetic acid (IAA)	Synthetic media	Auxin and cytokinin	
16	Pair of hormone needed for the differentiation of callus are		Glossary IV	Glossary IV	2		Single Choice	Brilliant	Auxin and cytokinin	Indole 3-acetic acid (IAA)	Synthetic media	Auxin and cytokinin	
17	A medium composed of chemically defined compound is defined as		Glossary IV	Glossary IV	2		Single Choice	Smart	Synthetic media	Indole 3-acetic acid (IAA)	Synthetic media	Auxin and cytokinin	

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Туре	Difficulty	Correct	Option1	Option2	Option3	Option4
18	Organism with more than two chromosome sets is termed as		Glossary V	Glossary V	2		Single Choice	Smart	Polyploidy	Flavanoids	Polyploidy	Batch culture	
19	Anthocyanins are		Glossary V	Glossary V	2		Single Choice	Smart	Flavanoids	Flavanoids	Polyploidy	Batch culture	
	Type of culture in which the cell material grows in a finite volume of agitated liquid medium is known as		Glossary V	Glossary V	2		Single Choice	Brilliant	Batch culture	Flavanoids	Polyploidy	Batch culture	