18BT44

Fourth Semester B.E. Degree Examination, July/August 2021 Cell Culture Techniques

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1	a.	Explain the Planning of layout design of cell culture lab.	(10 Marks)
	b.	Mention the uses of inverted microscope.	(10 Marks)
2	a.	Write a note on Clean Air Circulation in cell culture lab.	(10 Marks)
	b.	Explain the Slow Cooling System for cell freezing.	(10 Marks)
3	a.	Explain the method of Media preparation for cell culture.	(10 3 %)
3	b.	Explain the process of Osmolarity.	(10 Marks)
	υ.	Explain the process of Osmolarity.	(10 Marks)
4	a.	Explain with example use of growth supplements in the media.	(10 Marks)
	b.	Discuss the Sterilization process in cell culture lab.	(10 Marks)
5	a.	Explain the method of Tryprimization in cell culture technique.	(10 Marks)
	b.	Discuss the method of Organ culture.	(10 Marks)
6	a.	Write a note on Cell Separation Techniques in detail.	(10 Marks)
	b.	Discuss the applications of Animal cell culture for invitro testing of drugs.	(10 Marks)
7	a.	Cellular totipotency helps in differentation of tissues. Discuss.	(10 Marks)
	b.	Discuss the process of Osmotic Embryogenesis.	(10 Marks)
8	a.	Write a note on Secondary Metabolitics in Cell culture techniques.	(10 Marks)
	b.	Explain the process of Immobilization of cultures.	(10 Marks)
9	a.	Explain the method of Microbial Production of Antibiotics.	(10 Manla)
	b.	Discuss the use of microbes in Industrial Waste Water treatment.	(10 Marks)
	U.	Discuss the use of interoces in mutatifal waste water treatment.	(10 Marks)
10	a.	Discuss the Screening of Microbial Product Preservation Techniques.	(10 Marks)
	b.	Write a note on the importance of Strain improvement.	(10 Marks)
			,

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

* * * * *