School of Basic and Applied Sciences

Microbiology

ETE - Jun 2023

Time : 3 Hours **Marks : 50**

Sem II - MSDB5008 - Biotechnology and Genetic Engineering

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1.	What is the basic introduction to animal and plant biotechnology?	K1 CO1	(2)
2.	How do stem cell research offer potential solutions for medical challenge	K2 CO2	(2)
3.	Describe the applications of transgenic plants	K2 CO1	(2)
4.	Explain with example about Cell Lines	K1 CO1	(2)
5.	What do you understand by Microinjection	K2 CO2	(2)
6.	Discuss the role of PCR and hybridization methods in plant genetic engineering.	K4 CO3	(6)
7.	Explain about Plant Genetic Engineering and its applications in Agriculture	K3 CO2	(5)
8.	Discuss the process of constructing cDNA libraries	K3 CO1	(5)
9.	Describe the process of gene therapy and its methods in the treatment of diseases	K3 CO3	(8)
10.	Explain about the ethical considerations in human gene therapy	K4 CO4	(8)
11.	Explain the construction of Genome Library and its applications	K4 CO4	(8)