

School of Basic and Applied Sciences

BioScience
ETE - Aug 2023

Time : 3 Hours

Marks : 50

SEM III - B180301T - Recombinant Dna Technology Tools and Techniques

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

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| 1. | Write few medical applications of recombinant DNA technology. | K2 CO1 (2) |
| 2. | Explain phagemids. | K2 CO2 (2) |
| 3. | Discuss how is a signal amplified in case of non-radioactive hybridization process. | K3 CO3 (2) |
| 4. | Discuss the meaning of a reporter gene. | K3 CO4 (2) |
| 5. | Enlist the factors determining the choice of vector to generate a library. | K4 CO5 (2) |
| 6. | Enlist and elaborate various applications of recombinant biotechnology. | K3 CO1 (5) |
| 7. | Distinguish between the lytic and lysogenic infection cycles for a bacteriophage. | K3 CO2 (5) |
| 8. | Elaborate how can a PCR be used to create mutagenesis. | K6 CO6 (6) |
| 9. | Discuss different methods used for gene transfer. | K4 CO3 (8) |
| 10. | Compare the prokaryotic expression system with the eukaryotic expression system. | K4 CO4 (8) |
| 11. | Compare different kinds of vectors used to create libraries. | K5 CO5 (8) |