School of Basic and Applied Sciences

BioScience

ETE - Jun 2023

Time : 3 Hours **Marks : 50**

Sem II - MBAMTT2003 - Molecular Diagnostics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1.	Classify stages of the pathogenesis of bacterial infection.	K1 CO1	(2)
2.	Expand HGPRT and explain its significance in hybridoma technology.	K2 CO4	(2)
3.	Identify bioinformatics tools and their significance in molecular diagnosis.	K1 CO3	(2)
4.	Describe haplotype, heterozygous and homozygous.	K2 CO5	(2)
5.	Differentiate between pharmacodynamic and pharmacokinetic biomarker.	K2 CO2	(2)
6.	Discuss the application of mass spectrometry in protein profiling.	K4 CO6	(6)
7.	Elaborate the impact of various types of biomarkers in pre-clinical and clinical studies.	K3 CO2	(5)
8.	Elaborate host-pathogen interaction and classify factors affecting host-pathogen interaction.	K3 CO1	(5)
9.	Discuss the principle and applications of chemical and enzymatic DNA sequencing methods.	K3 CO5	(8)
10.	Explain the karyotyping technique for the identification of genetic abnormalities.	K3 CO3	(8)
11.	Discuss the principle and workflow of hybridoma technology to produce monoclonal antibodies.	K4 CO4	(8)