School of Basic and Applied Sciences

BioScience

ETE - Jun 2023

Time : 3 Hours **Marks : 100**

Sem IV - C2UH401T - Genetics and Epigenetics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1.	Construct the Mechanism of Sickle cell anemia.	K2 CO2	(5)
2.	Write the phenotypic ratio of di-hybrid, and tri-hybrid cross.	K1 CO1	(5)
3.	Recall the incomplete dominance with examples.	K1 CO3	(5)
4.	Choose the different types of Metabolic disorders in detail. List the different types of Biomarkers involved in Metabolic disorders.	K2 CO1	(10)
5)	Select the main reason for mendesl sucess.	K3 CO6	(10)
	OR		
	Extend the Mendels Laws of Principle segregation and Independent assortment.	K3 CO5	(10)
6.	Apply the structure and function of Plamid in details.	K3 CO2	(10)
7.	Dissect the following points in detail: (A) Genotype, (B) Punnete Square	K4 CO3	(10)
8)	Spell the multiple alleles with suiatble examples of ABO blood groups.	K4 CO4	(15)
	OR		
	Survey the following terms with examples (A) Allele, (B)Homozygous, (C) Phenotype, (D) Genotype, (E)Punnete Sqaure	K4 CO1	(15)
9.	Inspect the Polygenetic Inheritance in details with examples.	K4 CO6	(15)
10.	Build the notes on DNA Repair System.	K3 CO5	(15)