



**PART – B**

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain the causes and effects of the arc.	13	K1	CO1
	(OR)			
b)	Describe the preventive measures in electrical safety with examples.	13	K1	CO1
12. a)	Describe the requirement and procedure for inspection and testing of electrical safety equipment.	13	K1	CO2
	(OR)			
b)	List and elaborate on the role of personal protective equipment in electrical safety.	13	K1	CO2
13. a)	Illustrate the three components of the energy control program.	13	K2	CO3
	(OR)			
b)	Elaborate the need for barriers, warning signs, and marking potential hazards in electrical safety.	13	K2	CO3
14. a)	Illustrate the system and equipment grounding with the necessary diagram.	13	K2	CO4
	(OR)			
b)	Illustrate the types of earthing.	13	K2	CO4
15. a)	Explain the safety procedures to be followed for high-voltage systems.	13	K1	CO5
	(OR)			
b)	Describe the electrical safety requirements of medical equipment.	13	K1	CO5

**PART – C**

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Illustrate the parameters to be considered in electric power shock hazards.	15	K2	CO1
	(OR)			
b)	Elaborate the importance of preventive maintenance and suggest a maintenance plan for electrical safety in the industry.	15	K2	CO4