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ADMISSION NUMBER

School of University Polytechnic

Diploma in Electrical Engineering Semester End Examination - Jul 2024

Duration: 180 Minutes Max Marks: 100

Sem V - N1DI501T - Switchgear and Protection

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

1)	Identify and explain the various types of faults that can occur in	K1(2)
,	power transformers and their consequences.	()
2)	Discuss the characteristics and limitations of high-voltage (H.V.)	K2(4)
•	fuses.	()
3)	Discuss the importance of regular maintenance and testing of	K2(6)
	protective devices in a power system.	
4)	What are the criteria for choosing the appropriate type of protective	K3(9)
	gear for specific applications?	
5)	Discuss the grading and coordination of L.V. fuses for effective	K3(9)
	protection.	
6)	Discuss the methods used for winding temperature protection in	K5(10)
	power transformers.	
7)	Discuss the braking capacity of switches, and why is it essential in	K4(12)
	switchgear design.	
8)	Discuss the benefits and challenges of applying differential	K5(15)
	protection to feeders.	
9)	Compare different types of circuit breakers and their advantages	K5(15)
	over oil circuit breakers.	
10)	Discuss the reactors, and how are they classified? Describe the	K6(18)
	applications of bus bar, tuning, and arc-suppression reactors in	
	power stations.	

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