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		Ŀ	Question Paper Code: 52965	
		B.E	E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.	
			Seventh Semester	
			Electrical and Electronics Engineering	
			EE 6702 – PROTECTION AND SWITCHGEAR	
			(Regulation 2013)	
5	(Com	mon Seme	to PTEE 6702 – Protection and Switch Gear for B.E. (Part-Time) ster – Electrical and Electronics Engineering – Regulations–2014)	
Time: Three hours			ours Maximum: 100 marks	
			Answer ALL questions.	
			PART A — $(10 \times 2 = 20 \text{ marks})$	
1.			consequences of short circuit.	
2.	Define protected zone.			
3.			R-X diagram for the reactance and mho relay.	
4.				
5.				
6.				
7.			입사 사람들은 경우 전에 가는 사람들이 가득하는 것이 되었다.	
8.			nerits of Numerical relays.	
9.			you mean by current chopping?	
10.	wna	t are	the advantages of oil as arc quenching medium?	
			PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	(a)	(i)	Describe the different faults occurring in power system. Which of these are more frequent?	
		(ii)	Formulate an expression for the reactance of the Peterson coil in terms of capacitance of the protected line.	
			Or	
	(b)	(i)	Explain the overlapping of protective zones with neat sketch.	
		(ii)	Describe the essential qualities of a protective relay.	
			1 specially.	

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12. (a) Describe the construction and principle of operation of an induction type directional over current relay. (b) With neat diagram, describe the construction and principle of operation of Negative sequence relay. 13. (a) Describe the various methods of transformer protection. (b) Discuss the different methods employed for the protection of Transmission Lines. 14. (a) Draw the schematic block diagram of a Static over current relay and explain the operation. (b) Explain the operation of distance protection of transmission lines using static comparators with neat diagram. 15. (a) Explain the Various arc interruption methods. (ii) Describe the operating principle of DC circuit breaker. With neat diagram, explain the construction and principle of operation of Air blast circuit breaker. PART C —  $(1 \times 15 = 15 \text{ marks})$ 16. (a) Discuss the different types of Lightning arresters with neat diagram. (15) With a neat sketch, explain the differential system of protection (b) applied to star delta connected transformer. What are the problems arising in differential protection in power transformer and how are they overcome? 52965