



16	a) What are the different faults of transformer? Explain. b) What are different faults occurring in rotor of alternators? Explain any one of it.	5M 5M	3	L2
17	a) Explain the operation of static phase comparator used in static relays b) Discuss the operation of static differential relay	5M 5M	4	L2
OR				
18	Draw the block diagram and explain the operation of microprocessor based digital relays?	10M	4	L2
19	a) Explain the working of an SF6 circuit breaker with the help of diagram? b) A circuit breaker is rated at 1500A, 2000MVA, 33kV, 3 sec, 3 phase oil circuit breaker. Find the normal rated current, breaking current, making current and shot time current rating?	5M 5M	5	L2
OR				
20	a) Describe the operational phenomena of an air blast Circuit breaker. b) Explain the concept of resistance switching. Also list out its drawbacks.	5M 5M	5	L2