SLBS ENGINEERING COLLEGE

MODEL ANSWER PAPER

(Electrical Engineering)

Subject- Switch Gear & Protection **M.M.-10 Subject Code-** 6EE3A **Year & Sem.-** 3rd year & 6th sem. Q1- Write the name of comparators used in static relay? (1) A1- Amplitude comparator and Phase comparator. Q2- What is tripping condition for amplitude comparator? (1) A2- Operating quantity must be greater than to restraining quantity. Q3- Which relay used with static relay as a slave relay? (1) A3- DC polarised relay. Q4-What is a tripping condition for phase comparator? (1) A4- Phase angle between operating and restraining quantity is less than or equal to 90 degree. Q5- Write merits and demerits of static relay over electro-magnetic relay? (3) A5- Merits-• Fast response. Compact size • Long life

Demerits-

• Static relays are temperature sensitive.

• Low burden on CTs and VTs.

- Static relays are sensitive to voltage transient.
- Static relay need an auxiliary power supply.

| Q6- Explain static: | | (3) |
|---|---|---|
| a static circuit which day static relays inc | y, the comparison or measurement of electric places an output signal for the tripping clude a dc polarised relay as a slave relay des, transistors, zener diodes, thyristors, l | of circuit breaker. Most of present v. A static relay employs |
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