PS A

(OLD COURSE)

QP Code : **3734**

(3 Hours) [Total Marks : 100

N. B. : (1) Question No **1** is **compulsory**.
  (2) Solve any **four** questions out of remaining.
  (3) Assume the suitable data if required and specify the same.

1. Solve the following questions :– 20
   (a) Discuss the term short circuit MVA.
   (b) Discuss the power invariance of symmetrical components.
   (c) Discuss the terms with stand voltage and lightning stroke current.
   (d) Discuss the Television Interference.

2. (a) Discuss the transients on transmission line. 10
   (b) Discuss the short circuit of synchronous machine in loaded and unloaded condition. 10

3. (a) Discuss the symmetrical component transformation in star delta circuit of transformer. 10
   (b) Discuss the sequence network of transformer. 10

4. (a) Derive the sequence network for line-line-ground fault and write the fault current equation. 10
   (b) Discuss the termination of line in open circuit and draw the wave forms. 10

5. (a) Discuss the role of ground wire and Lightning arrestor. 10
   (b) Discuss the terms point charge, line charge 10

6. (a) Discus the various methods of reactive power control 10
   (b) Discuss the Mangolt Formula 10

7. Write short notes on (any **three**) :– 20
   (a) Disadvantages of corona
   (b) Maximum charge condition
   (c) PV nose curve.
   (d) Surge capacitor.

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