

Code: EEPC2T4

I M.Tech - II Semester - Regular Examinations - December 2013

ADVANCED POWER SYSTEM PROTECTION

(POWER SYSTEM CONTROL & AUTOMATION)

Duration: 3 hours

Marks: 5x14=70

Answer any FIVE questions. All questions carry equal marks

1. a) Compare static relays with electromagnetic relays. 7 M
b) Explain about various protective schemes. 7 M
2. Explain in detail about various types of amplitude comparators. 14 M
3. Explain with neat diagrams any two types of static over current relays with neat diagrams. 14 M
4. Explain about the following with neat diagrams
(i) Impedance relay
(ii) Static reactance relay
(iii) Elliptical relay 14 M

5. a) Write about wire pilot protection. 7 M
- b) Explain carrier aided distance protection. 7 M
6. a) Explain in detail about the over voltage protection of alternator. 7 M
- b) Write about bus zone protection . 7 M
7. Write about microprocessor based over current relays. 14M
8. Discuss the construction details of various types of surge arresters . 14M