

23289

**M.Tech. 2nd Semester Electrical Power System
Examination, May-2017
ADVANCED POWER SYSTEM PROTECTION
Paper-MTEPS-204**

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions in all. All questions carry equal marks.

1. (a) Explain the classification of protective schemes. 20
(b) Explain phase comparator.
2. (a) Explain protection of transmission line. 20
(b) Explain protection of substation.
3. (a) Define inverse time. 5
(b) Explain the time-current characteristics of over current relay. 15
4. (a) Define definite time. 5
(b) Explain extremely inverse time over current relay. 15
5. What do you mean by static MHO relay, explain its characteristics and application. 20

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[P.T.O.]

6. Write short note on
- (i) Selection of distance relay
 - (ii) Elliptical relay. 20
7. (a) Why we need carrier aided distance protection, explain it. 20
- (b) What are the optical fibre channels, explain them.
8. Explain the different protection of transformer. 20