Total No. of Printed Pages:1

SUBJECT CODE NO:- H-1630
FACULTY OF ENGINEERING AND TECHNOLOGY
ME (Electrical Power System)
Digital Protection of Power System
(REVISED)

[Time: Three Hours] **[Max.Marks:80]**

Please check whether you have got the right question paper.

N.B
1. Solve any two questions from each section.
2. Draw neat diagram and assume suitable data.

Section A

Q.1 a) Explain various types of protective relays 10
b) Explain digital protection with advantages of it 10

Q.2 a) Describe various types of comparators 10
b) Explain solid state over current relay draw time current characteristics and explain it . 10

Q.3 a) Describe a microprocessor based data acquisition system to acquire the simultaneous samples of voltages and current signals with interfacing diagram 10
b) Explain microprocessor based over current relay with block representation and programs. 10

Section B

Q.4 a) Explain a typical static relaying system in detail write the advantages of static relay 10
b) Explain digital protection system for a power transmission line 10

Q.5 a) Compare DSP based protection system with microprocessor based protection system describe the principle of DSP based protection system. 10
b) Explain with basic architecture the DSP 320 series ICs 10

Q.6 a) What numerical relay. Explain a multifunction numerical relay with neat block diagram 10
b) What are the advantages of digital protection explain in detail. 10