CODE NO:- Z-8184
FACULTY OF ENGINEERING
M.E (EPS) Year Examination - June – 2015
Digital Protection of Power System
(Revised)

[Time: Three *Hours*]   [Max. Marks: 80]
"Please check whether you have got the right question paper."
N.B   i)   Attempt <u>any two</u> questions from each section.

SECTION-A

Q.1	a)	Develop the data acquisition system for protection scheme.	10
	b)	Write the advantages of digital protection.	10
Q.2	a)	Develop a numeral algorithm for protection relaying.	10
	b)	Draw and explain the solid state protection scheme for transformers.	10
Q.3	a)	Describe the cosine type phase comparator.	10
	b)	Describe the types of electo-mechanical relays.	10

SECTION -B

Q.4	a)	What do you understand by static relays? Name different components used in a typical static relaying scheme.	10
	b)	Discuss the theory and basic principle of digital protection of a transmission line.	10
Q.5	a)	Discuss with the help of neat diagrams the hardware and software of the digital protection scheme using distance relays.	10
	b)	Discuss the theory and principle of operation of a microprocessor based percentage differential relay scheme for the protection of a transformer.	10
Q.6	a)	Explain the process of computing Fourier transform in discrete digital domain.	10
	b)	Draw and explain PT modeling with reference to standards.	10