

TE Electrical Sem VI (choice based) 10/05/19



(3 Hours)

Total Marks - 80

- i) Question No. 1 is compulsory.
- ii) Attempt any three questions from remaining.
- iii) Assume suitable data if necessary (mention the same).
- iv) Figures to the right indicate full marks.

Q.1 Attempt any four.

[05*04]

- A) List the desirable qualities of protection scheme & explain any two qualities in details.
- B) Explain the time grading protection for radial feeder.
- C) Explain the advantages & disadvantages of static relays.
- D) Explain pantograph type of isolator.
- E) Explain different methods of arc interruption.
- F) Explain construction & working principle of bulk oil circuit breaker.

Q.2

- A) Explain the protection scheme of induction motor against single phasing.
- B) Explain restricted earth fault (REF) protection for alternator.

[10]

[10]

Q.3

- A) Explain construction & working principle of SF6 circuit breaker.
- B) Explain construction & working principle of HRC fuse.

[10]

[10]

Q.4

- A) Explain construction & working principle of induction disc relay.
- B) Differentiate between static & electromagnetic relay.

[10]

[10]

Q.5

- A) Explain percentage differential protection scheme for star-delta connected transformer.
- B) Explain the differential protection scheme provided for bus zones.

[10]

[10]

Q.6 Write a note on any two.

[10*2]

- A) Substation layout.
- B) Numerical relay.

Compare carrier current protection.

b)

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