

T.E. (Electrical) sem-V CBS 95 29/11/2018

(Time: 3 Hours)

[Total marks: 80]

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- N.B:- (1) Question 1 is compulsory
(2) Solve any three questions from remaining five questions.
(3) Figures to the right indicate full marks.

- Q 1. Answer the following questions. 20
- a) Explain the importance of different types of instrument transformers
 - b) What is the role of isolator in power system? Explain.
 - c) What are the difficulties associated with differential protection
 - d) Explain primary, back up and remote backup protection of relay.
- Q 2 a) What is working principle of distance relays. Differentiate between different types of distance relays. 10
- Q 2 b) Explain with neat diagram construction and working principle of MOCB. 10
- Q 3 a) Explain construction & working of Air circuit breaker. 10
- Q 3 b) Name the different types of fault that occur in transformer. Explain bucholz relay for protection of transformer. 10
- Q 4 a) Explain with neat construction any one type of Induction relay. 10
- Q 4 b) Explain desirable qualities of protection scheme required for efficient operation 10
- Q 5 a) What are the different types of fault that occur in Induction motor. Explain motor protection against single phasing. 10
- Q 5 b) Explain advantages of static relay over electromagnetic relays. 10
- Q 6 a) Discuss various properties of SF6 gas that make it suitable for arc quenching and explain SF6 CB in detail with suitable diagram. 10
- Q 6 b) Explain REF protection for alternator. How 100% winding is protected in an alternator. 10
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