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Total No. of Pages : 02

Total No. of Questions : 18

B.Tech. (EE) PT (Sem.-7) POWER SYSTEM-II (Switch Gear & Protection) Subject Code : BTEE-602 M.Code : 74091

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- 1) What do you mean by a static relay?
- 2) What are the duties performed by a Circuit breaked
- 3) What is meant by back up protection?
- 4) Define the term "fusing factor" related to fuse.
- 5) What are the functions of a protective relay?
- 6) What are the uses of a Buchholz's relay?
- 7) What do you understand by RRRV?
- 8) Mention any two applications of differential relays.
- 9) What do you understand by pick up value of a relay?
- 10) What are the advantages of air blast circuit breakers over oil circuit breakers?

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SECTION-B

- Discuss various types of faults in Alternators. Explain Loss of excitation protection in Generators.
- 12) Describe the operation of a HRC cartridge fuse.
- 13) Classify various types of substations. Compare indoor and outdoor types of substations.
- 14) Explain briefly following terms related to CBs with the help of some diagram :
 - a) Arc voltage
 - b) Restriking voltage
- 15) Discuss the Time graded protection of feeders.

SECTION-C

- 16) Write a note on following :
 - a) Negative sequence relay
 - b) Carrier current protection of lines.
- 17) With the help of a neat sketch, describe the working of vacuum circuit breakers.
- 18) Write a note on following :
 - a) Reactance Relays
 - b) Ground wires

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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