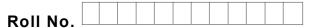
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Total No. of Pages : 02

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

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- a) Differentiate between Busbar and Feeder.
- b) What is HRC fuse? Draw its cut off characteristics.
- c) Define term Recovery voltage in relays.
- d) Mention prominent features of Vacuum circuit breaker.
- e) What are Thermal relays? Give its applications.
- f) Mention functional characteristics of protective relays.
- g) Give merits of Grounded neutral system.
- h) List the protection schemes of transformer.
- i) Name parameters to define rating of a circuit breaker.
- j) What is meant by Carrier current protection of lines?



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SECTION-B

- 2. Discuss layout of a distribution substation.
- 3. Describe briefly theories of Arc interruption in circuit breakers.
- 4. Explain construction and working principle of Translay relay.
- 5. With the help of diagram, discuss Restricted earth fault protection of an alternator.
- 6. Discuss distance protection of Feeders.

SECTION-C

- 7. a) Discuss working principle of SF_6 circuit breaker.
 - b) Describe functioning of Impulse gap type arrestor.
- 8. Discuss various relaying schemes used for protection of transformers. Let. Or
- Write short notes on the following : 9.
 - a) Neutral grounding
 - b) Loss of excitation protection of alternator .on First

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.