

F 3521

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Reg. No.....

Name.....



B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Electrical and Electronics Engineering

SWITCHGEAR AND PROTECTION (E)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer all questions.
Each question carries 4 marks.*

1. Explain breaking capacity.
2. What is current chopping ?
3. Write a note on classification of relays.
4. Explain static differential relay.
5. Differentiate internal and external faults.
6. Explain the operation of buchholz's relay.
7. Write a note on radial feeder protection.
8. Explain carrier current protection.
9. What are the causes of surge over voltages ?
10. Explain surge impedance.

(10 × 4 = 40 marks)

Part B

*Answer all questions.
Each question carries 12 marks.*

11. Explain working principle and important features oil circuit breakers and vacuum circuit breakers.
- Or*
12. Explain : (i) Arc interruption methods. (ii) Making capacity.
 13. Explain the requirements of protective relaying. Explain the principle of directional over current power relays.

Or

14. Explain the block diagram of static over-current and static directional relays.

Turn over

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15. Explain the various protections of generators.

Or

16. Explain the self balance system of transformer protection.

17. Explain protection of parallel feeders and ring mains.

Or

18. Explain transmission line protection.

19. Explain how to protect from high voltages.

Or

20. Briefly explain wave propagation.

(5 × 12 = 60 marks)

