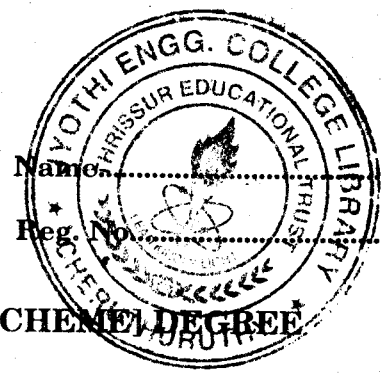


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**EIGHTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, APRIL 2016**

EE/PTEE 09 802 – POWER SYSTEM PROTECTION AND UTILIZATION

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. List different types of protective relays.
2. What is the function of lightning diverter?
3. What is overcurrent relay?
4. What is braking? What are the types?
5. What are the applications of static relay?

(5 × 2 = 10 marks)

Part B

Answer any four questions out of six.

6. Briefly explain Buchholz protection of transformer.
7. Briefly explain SF6 circuit breaker with neat diagram.
8. Explain microprocessor based protective relaying.
9. Explain the advantages of electric heating.
10. Briefly explain about insulation co-ordination.
11. Explain amplitude comparator.

(4 × 5 = 20 marks)

Part C

Answer all questions.

12. Explain the protection scheme for generator.
- Or*
13. Explain different types of protective relays with applications.
 14. What is lightning diverter? Explain different types.
- Or*
15. Explain briefly about (i) ABCB ; (ii) SF6 circuit breaker.

(5 + 5 = 10 marks)

Turn over

16. Explain different types of static relay.

Or

17. (i) Briefly explain the specifications of travelling waves.
(ii) Explain reflection and attenuation of waves.

(5 + 5 = 10 marks)

18. Explain induction type arc furnaces.

Or

19. (i) What is braking? Explain different types.
(ii) Explain high frequency power supply.

(5 + 5 = 10 marks)

[4 × 10 = 40 marks]