

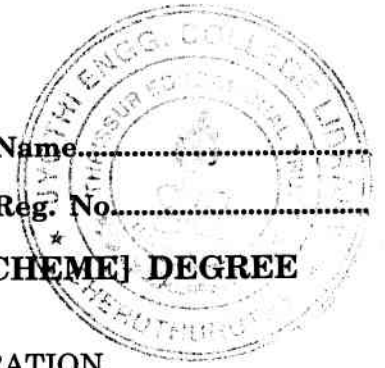
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Name.....

Reg. No.....

**FIFTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, NOVEMBER 2015**

**EE/PTEE 09 502—ELECTRICAL POWER GENERATION,
TRANSMISSION AND DISTRIBUTION**



Time : Three Hours

Maximum : 70 Marks

Part A

1. Explain about Conventional sources of energy ?
2. What is mean by Economic Span ?
3. Write the different types of Underground cables ?
4. What is meant by GMD ?
5. Define String Efficiency.

(5 × 2 = 10 marks)

Part B

6. Draw the Layout for Thermal Power Generation.
7. Write the Calculation of Sag ?
8. Compare Radial and Ring mains.
9. Explain the insulation Resistance in Underground Cables.
10. Explain the calculations of Nominal T method.
11. Write short notes on Capacity of phase advancing plant.

(4 × 5 = 20 marks)

Part C

12. Briefly explain any *one* of Non-Conventional Sources of Energy.

Or

13. Briefly explain the concept of tariff.
14. Explain the concept of arrangement of conductors.

Or

15. Explain the working principle of Arcing Horns.
16. Write the Calculations in radial and ring mains.

Or

17. Briefly explain Laying and testing of Cables.
18. Write the Calculation of Transmission line inductance and capacitance.

Or

19. Explain Power flow through a transmission line.

(4 × 10 = 40 marks)