SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E - EEE
Title of the paper: Transmission & Distribution
Semester: V — Max. Marks: 80
Sub.Code: 314506 — Time: 3 Hours
Date: 15-11-2008 — Session: FN

PART – A (10 x 2 = 20)

Answer All the Questions

1. Give the advantages of HVDC transmission system.

2. State the Kelvin's law.

3. What do you mean by skin effect in transmission lines?

4. What is Transposition?

5. Define the regulation of the transmission lines.

6. What is shunt compensation?

7. Give the advantages of underground cables.

8. What is string efficiency?

9. What are the various supports used for overhead transmission?

10. Compare overhead and underground cables.

PART – B (5 x 12 = 60)

Answer All the Questions

11. Explain briefly about the generation, transmission and distribution system of power using one line diagram.

(or)

12. Explain in details about operation of HVDC system and types of DC links with neat sketch.

13. Derive the expression for inductance of a single phase two wire lines with neat sketch.

(or)

14. Explain with neat sketch the Inductive interference with neighbouring circuits of transmission lines.

15. Explain with neat circuit the compensation used in the transmission lines.

(or)

16. Derive the expression for regulation for short lines by drawing the equivalent circuit.

17. Explain with neat sketch the types of Underground cables.

(or)

18. Explain in detail the methods to improve the string efficiency of the transmission lines.

19. Explain in detail about stringing chart with expressions.

(or)

20. With neat sketch explain Various types of line supports used for overhead transmission system.