

III B. Tech I Semester Regular Examinations, Dec/Jan -2022-23

POWER SYSTEMS - II

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each** unit

All Questions Carry Equal Marks

UNIT-I

1. a) Derive the inductance of 2-wire transmission line [7M]
 b) Derive the expression for capacitance of three phase transmission line with asymmetrical spacing [7M]
 (OR)
2. a) A single phase, two wire transmission line 20km long, is made up of round conductors each 0.9cm in diameter, separated from each other by 45cm. Calculate the equivalent diameter of a fictitious hollow, thin-walled conductor having the same inductance as the original line. What is the value of this inductance? [7M]
 b) Discuss the concept of geometric mean distance. How is this concept used to find the inductance of composite conductor line? [7M]

UNIT-II

3. a) Derive the A, B, C and D constants for Nominal-T model [7M]
 b) A single-phase overhead transmission line is transmitting 1200kW power to factory at 11kV at 0.8 P.F lag. The line resistance and loop reactance of the line are 3 ohm and 5 ohm per phase. Determine i) Source voltage ii) Percentage regulation iii) Efficiency. [7M]
 (OR)
4. a) What is an equivalent π circuit model of long line? Derive expression for parameters of this circuit in terms of line parameters. [7M]
 b) Determine the auxiliary constants of a 3-phase, 50Hz, 200km long transmission line having resistance, inductance and capacitance per phase per km of 0.15 ohm, 3.5mH and 0.009 μ F respectively. [7M]

UNIT-III

5. a) Discuss the propagation of surges in transmission lines. [7M]
 b) A cable with surge impedance of 100 Ohms is terminated in two parallel connected open wires having surge impedances of 600 Ohms, and 1000 Ohms respectively. If a steep fronted voltage wave of 2 kV travels along the cable, find the voltage and current in the cable and the open-wire lines immediately after the travelling wave has reached the transition point. Assume voltage wave to be infinite length. [7M]
 (OR)
6. a) Deduce expression for velocity of propagation of travelling waves. [7M]
 b) How the travelling waves are attenuated, describe numerically? [7M]

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