Previous VTU Question Papers with Suggested Scheme of Answers/ Solutions

SUBJECT: Computer Techniques in Power Systems

EE72

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- Note: 1. Answer any five questions.
 - Assume missing data suitably.
- a. Explain the significance of primitive network and hence get the performance equations in both impedance and admittance form. (5 Marks)
 - Derive an expression for obtaining the bus admittance matrix using singular transformations.
 (7 Marks)
 - c. Determine the bus admittance matrix using the singular transformations for the sample power system with the line data shown in table below. (8 Marks)

Line No.	1	2	- 35	- 34	.5
Bus-code p-q	0 -1	1 - 2	2 -3	3 - 0	2 - 0
Impedance pu)	0.8	0.5	0.4	0.5	0.25

- a. Obtain the generalized algorithmic expression for bus impedance matrix elements when a link is added to the partial network. Also discuss the special cases.
 - Explain the steps to modify the Z_{BUS} for removal of a line or modification of the line impedance.
 (6 Marks)
- a. What are different types of buses considered during power system load flow analysis? Explain briefly. (5 Marks)
 - Determine the voltages at the end of first iteration using GS method for the system data given below. Assume an acceleration factor of 1.6. (15 marks)
 - i) Line Data

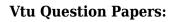
Bus Code	1 - 2	1 - 3	2 - 3	2 - 4	3 - 4
Admittance	2 - j 8	1 - j + 1	0.66 - j 2.664	1 - j - 4	2-j8

10) Bus Data

Bus No.	P	O	v	Remarks
-1	-	-	1.06∠0	SLACK
2	00.5	0.2	1+ j 0	PQ
25	0.4	0.3	1+j0	PQ
4	0.3	0.1	1+ j O	PQ

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