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10EE71

**Seventh Semester B.E. Degree Examination, June/July 2014
Computer Techniques in Power System Analysis**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, selecting
atleast TWO questions from each part.*

PART - A

1. a. For the network shown in Fig.Q.1(a), obtain the incident matrices A, B, C and K taking node '0' as reference. Hence verify the identities.
i) $B_1 - A_1 K^T = 0$ ii) $B^T C = 0$. Take elements 5, 6 and 7 as links. (10 Marks)

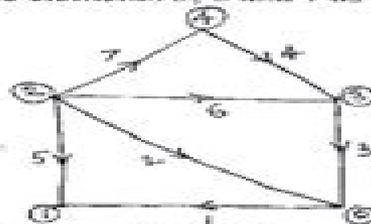


Fig.Q.1(a)

- b. Form the bus admittance matrix by the method of inspection for the system shown in Fig.Q.1(b). Take $a_1 = 0.92$ and $a_2 = 0.95$. (10 Marks)

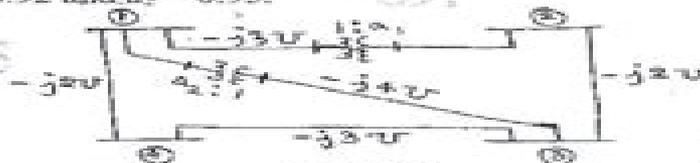


Fig.Q.1(b)

2. a. What is meant by primitive network? Derive the matrix expression for forming the bus admittance matrix from the primitive admittance matrix through a singular transformation. (10 Marks)
- b. For the network shown in Fig.Q.2(b), determine Z_{bus} using Z_{bus} building algorithm with node '1' as reference. Self impedances of the elements are in p.u. and marked on the diagram. Add elements in the ascending order of their numbering. (10 Marks)

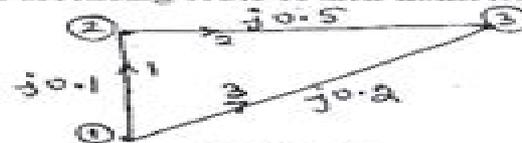


Fig.Q.2(b)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any giving of identification, appeal to evaluator and/or equations written on 42 x 50, will be treated as malpractice.

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