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B. Tech. Examination 2021-22**(Even Semester)****FUNDAMENTAL OF NETWORK ANALYSIS***Time : Three Hours]**[Maximum Marks : 60***Note 1-** Attempt all questions.**SECTION - A**

1. Attempt all parts of the following : 8 × 1 = 8
- (a) Explain initial and final value theorem.
 - (b) Show the efficiency of circuit is 50% under condition of maximum power transfer.
 - (c) Define twigs of graph theory.
 - (d) Explain cut-set matrix.

[P. T. O.