

# Government college of Engineering Amravati

(an Autonomous institute of Govt. of Maharashtra)

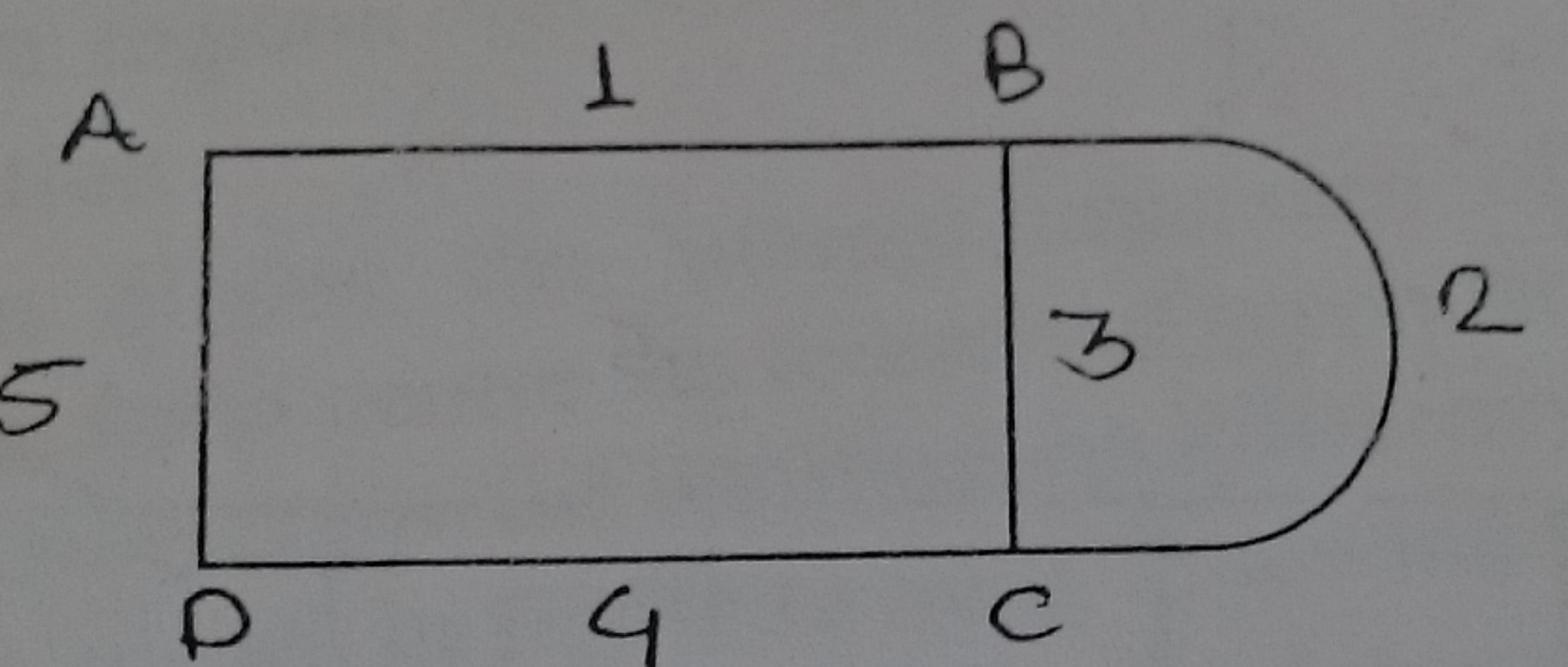
Course code: NAETU 301  
Marks: 15

Class Test 1

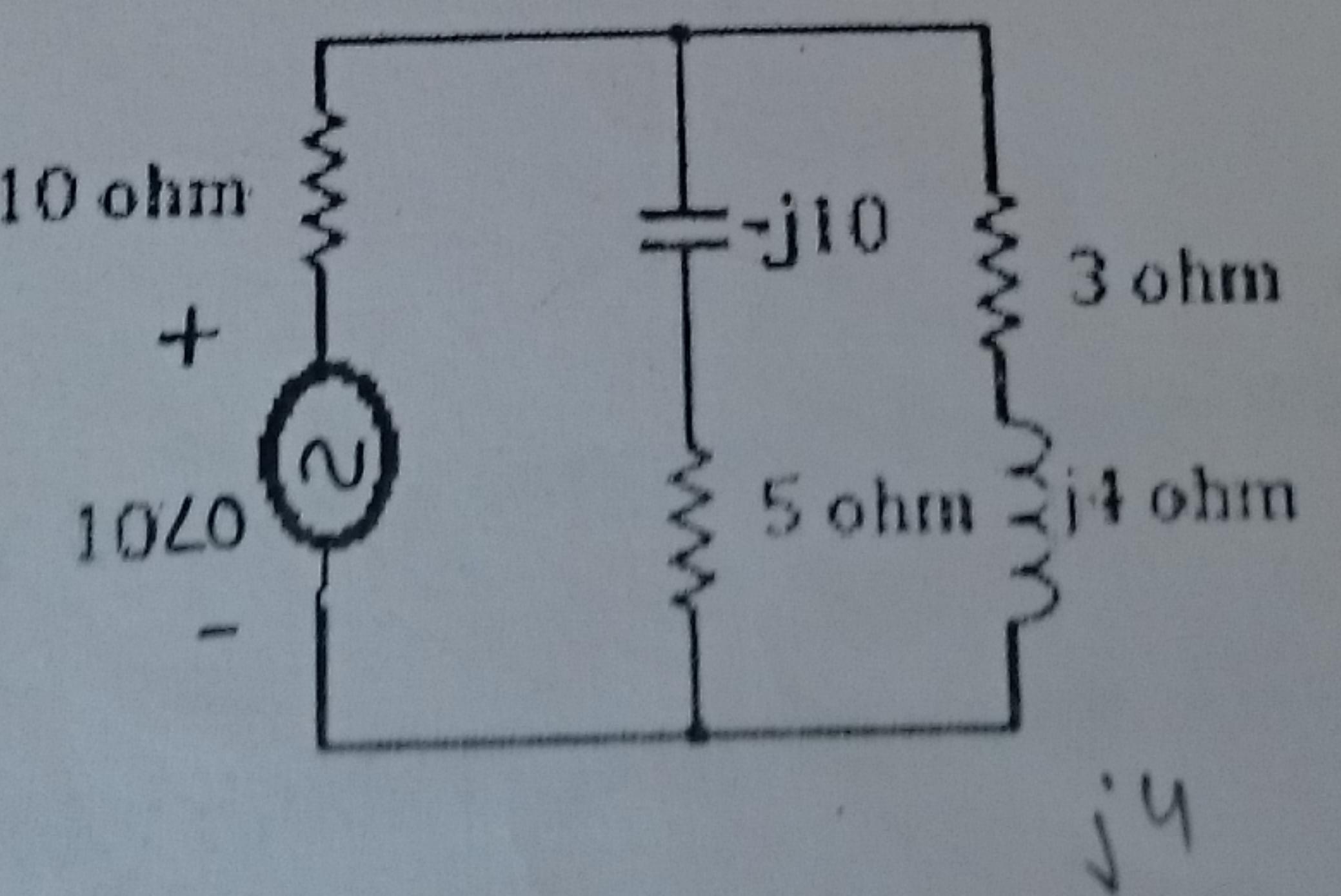
Time: 1 hour  
Date: 5/8/2015

Solve any Three

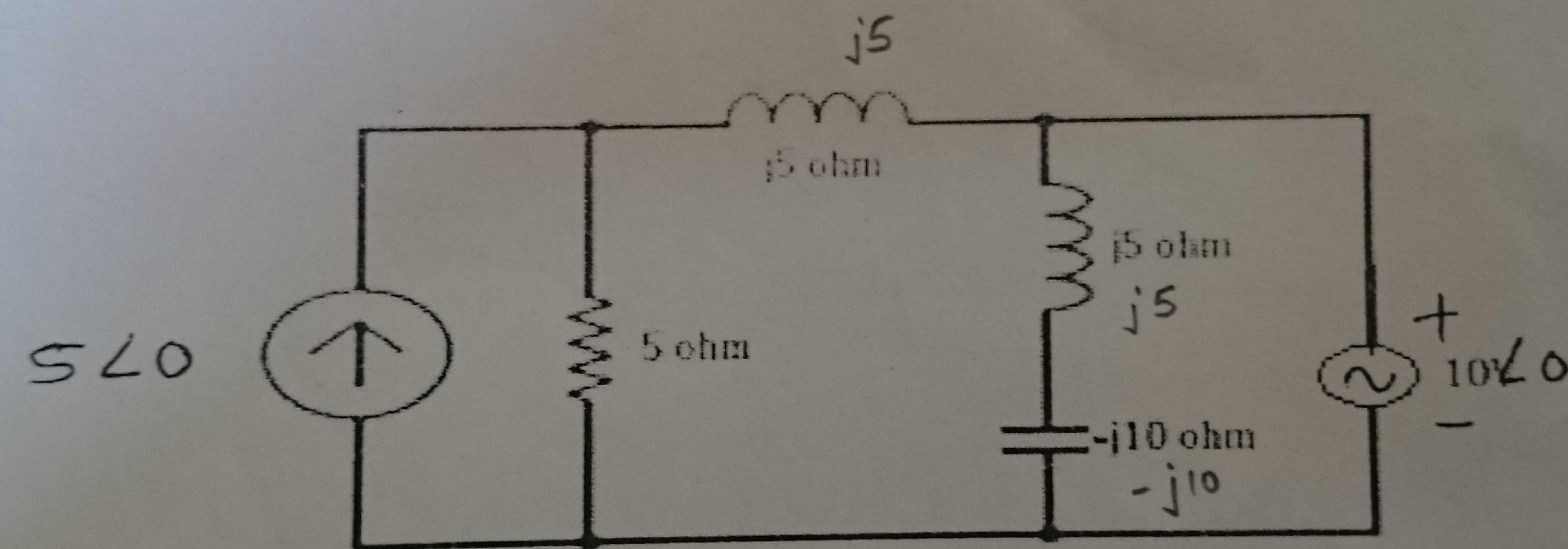
- 1) State and prove principle of constant flux linkage. 5
- 2) State and explain properties of fundamental cut set matrix and determine different cut-set for following fig. 5



- 3) Determine current through  $5\Omega$  resistance using Thevenin's Theorem 5



- 4) Using Superposition Theorem, Determine current through  $5\Omega$  resistance in network shown. 5



Q1) Solve the following  
(A) With the help of  
expression  
(B)