



Council for Technical Education and Vocational Training  
Office of the Controller of Examinations  
Sanothimi, Bhaktapur

**Regular/Back/Special Exam-2080, Mangsir/Poursh**

**Program: Diploma in IT Engineering**

**Full Marks: 80**

**Year/Part: I/II (2016)**

**Pass Marks: 32**

**Subject: Electrical Engineering**

**Time: 3 hrs.**

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*



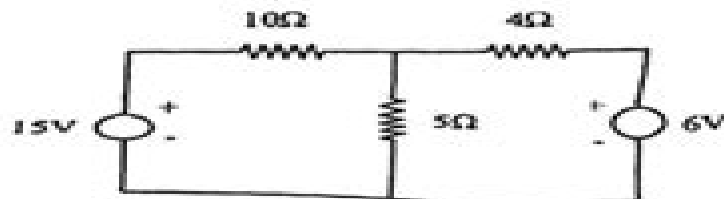
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**Attempt Any Five questions.**

1. a) Define the terms: i) Current ii) Voltage [4x2=8]  
iii) Power iv) Energy
- b) State and explain Faraday's law of electromagnetic induction. [4]
- c) State and explain KVL with example. [4]
2. a) Using node voltage method find the current in the  $3\Omega$  resistor. [8]



- b) Using Thevenin's theorem calculate the current through  $4\Omega$  resistor. [8]



3. a) What do you mean by transformer? Explain the working principle of single phase transformer. [8]
- b) Explain the construction and working principle of  $3\phi$  induction motor in brief. [8]



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Cont.....

# Diploma Electrical Technical Question And Answer

**Lei Huang**



## **Diploma Electrical Technical Question And Answer:**

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