



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.

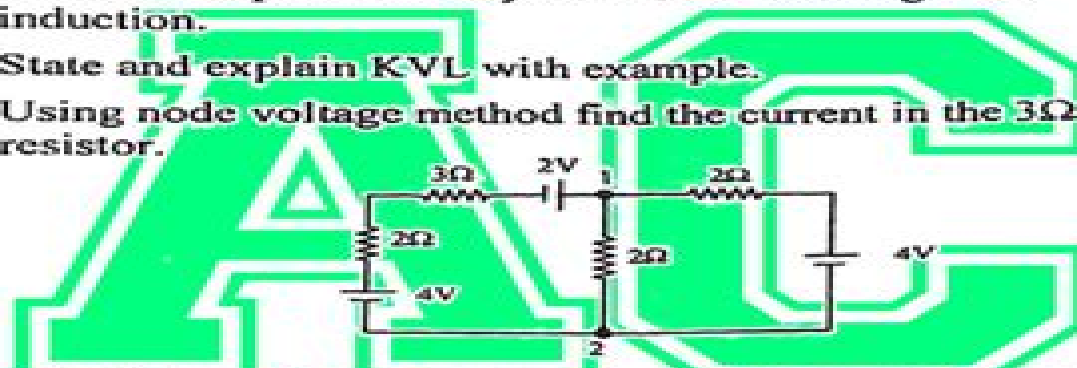
Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.



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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 3Ω resistor. [8]



- b) Using Thevenin's theorem calculate the current through 4Ω 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 3ϕ induction motor in brief. [8]



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Cont.....

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