3E2072

Roll No. : \_

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B.Tech. (Sem. III) (Main/Back) Examination, January - 2012 Computer Engg. & Information Tech. 3IT2 & 3CS2 Electronics Devices & Circuits

Time: 3 Hours]

[Total Marks: 80

[Min. Passing Marks: 24

## Instructions to Candidates:

Attempt any five questions selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

. Nil

2. Nil

## UNIT - I

1 (a) Differentiate between Zener and Avalanche breakdown in zener diode. Give voltage values for which zener and avalanche breakdown takes place in a zener diode?

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(b) Explain continuity equation with suitable diagram and mathematical relation.

## OR

1 (a) Explain the working and principle of a voltage quadrupler circuit with neat diagram. 8

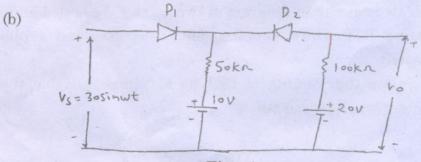


Fig. 1

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