

**3E1462**

Roll No. : \_\_\_\_\_

Total Printed Pages : **4****3E1462****B. Tech. (Sem. III) (Reback) Examination, January - 2012****Computer Science****3CP/CS2(O) : Electronics Devices & Circuits (Common for CP & IT)**

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)

1. \_\_\_\_\_ Nil \_\_\_\_\_ 2. \_\_\_\_\_ Nil \_\_\_\_\_

**UNIT - I**

1 (a) Draw V-I characteristics for a P-N junction diode and explain how diode is used as a circuit. 8

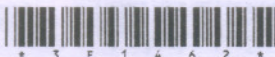
(b) What do you understand by clamping circuit ? With neat diagrams explain the action of a negative clamper. 8

**OR**

1 (a) Explain the concept of loadline. Also describe voltage tripler with the help of a neat diagram. 8

(b) Give the difference between a clamping circuit and clipping circuit also explain biased clipper with the help of diagram. 8

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