

No. of Printed Pages : 05

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 33402

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**B. Tech. Examination 2021-22**

(Even Semester)

**BASIC ELECTRONICS ENGINEERING***Time : Three Hours]**[Maximum Marks : 60***Note :-** Attempt all questions.**SECTION - A**

1. Attempt all parts of the following :  $8 \times 1 = 8$
- (a) Distinguish between Avalanche and Zener breakdown mechanisms.
  - (b) What do you mean by Doping? Describe its need.
  - (c) Define threshold voltage for an E-MOSFET. Also define  $I_{DSS}$  for an JFET.
  - (d) Explain FET as voltage variable resistor.

**[P. T. O.]**