



**SP-1948**

Seat No. \_\_\_\_\_

**B. Sc. (I.T) (Sem. - II) Examination**

**April / May - 2006**

**Fundamental of Electronics**

Time : 3 Hours]

[Total Marks : 100

- Instruction :** (1) This question paper contains **five** questions.  
(2) Figures to the **right** indicate full marks.  
(3) Illustrate your answers with neat sketches.

1. Answers the following any FOUR 20
1. Discuss the different types of Resistors.
  2. Explain the working of Transistor as a Switch.
  3. Discuss Intrinsic and Extrinsic semiconductors.
  4. Explain CE configuration circuit with equations.
  5. Discuss I-V characteristic of diode.
  6. Explain Half wave rectifier.
2. Write a detail note on CRO. Draw block diagram and explain each parts of CRO. 20
- 3(a). Explain following logic gates with truth table 10
1. AND
  2. OR
  3. NAND
  4. NOR
  5. EX OR
  6. EX NOR

**OR**

- 3(a). Discuss the drain characteristics of n channel JFET. Also, compare BJT and JFET.
- 3(b). Write a brief note on Full Wave rectifier and Bridge rectifier with necessary circuit diagram. Also, compare both. 10
4. Answers the following : any TWO 20
1. Write Monolithic IC fabrication steps with necessary figures.
  2. Explain multiplexer and demultiplexer in detail.
  3. Write a brief note on Multimeter.

**SP-1948]**

**1**

**[ Contd...**

5(a). What is Binary arithmetic ? Discuss De morgan's theorem. 08

**OR**

5(a). Discuss JFET advantages and applications.

5(b). Write a brief note any TWO 12

1. Boolean algebra
2. Application of electronics .
3. CC and CB configuration.

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