

BASIC ELECTRONICS

(Maximum Marks: 75)

(Time: 2¼ hours)

PART - A

- I. Answer *any three* questions in one or two sentences. Each question carries 2 marks. Marks
- 1 ✓ Give two applications of Transformer.
 - 2 ✓ List two specification of inductor.
 - 3 ✓ Explain diffusion current.
 - 4 ✓ List different types of filter circuits used with rectifiers.
 - 5 ✓ Draw the symbol of NPN and PNP Transistor (3 x 2 = 6)

PART - B

- II Answer *any four* of the following questions. Each question carries 6 marks.
- 1 ✓ Describe the specifications of capacitor
 - 2 ✓ Draw and explain the energy band diagram of conductors, semiconductors and insulators.
 - 3 ✓ Draw the VI characteristics of a tunnel diode and explain.
 - 4 ✓ Explain the working of a π - section filter circuits and state the advantages.
 5. Define the terms TUF, ripple factor and efficiency with respect to a rectifier.

6. Draw the energy band diagram of a semiconductor.
7. Draw the energy band diagram of an insulator.

PART - C

Answer any two of the following questions. Each question carries 6 marks.

PART - D

1. Draw the energy band diagram of a semiconductor.
2. Draw the energy band diagram of an insulator.

Basic Electronics Question Paper 21

Michael Brown



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