

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.

PART - C

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

PART - D

- | | | | |
|-----|-----|--|----|
| 16. | 16. | Describe the uses of applications of Transformer. | 16 |
| 17. | 17. | Explain the different types of filter circuits used with rectifiers. | 16 |
| 18. | 18. | Draw the symbol of NPN and PNP Transistor. | 16 |

Basic Electronics Question Paper 21

Xiaolong Qi



Basic Electronics Question Paper 21:

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Yashwant Kumar Parte, 2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book

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