

40035



12. a) Construct and demonstrate the working mechanism of CE configuration of BJT.

(OR)

b) Construct and demonstrate the working mechanism of CB configuration of BJT.

13. a) Illustrate the working mechanism of JFET with necessary diagram.

(OR)

b) Discuss your understanding on MOSFET detailing the types, construction and characteristics.

14. a) Illustrate with necessary diagram, the working mechanism of a LASER diode.

(OR)

b) Discuss in detail about Zener and Tunnel diode.

15. a) Explain the working and characteristics of SCR and its applications.

(OR)

b) Enumerate the construction and operation of LED.

PART - C

(1×15=15 Marks)

16. a) Design and analyze a NPN bipolar junction transistor using Eber moll transistor model.

(OR)

b) Explain the working and characteristics of DIAC and its applications.