



2. (a) Explain the working of Half wave rectifier with its advantages. 5
(b) What is electronic emission ? Discuss the different types of electronic emission with neat diagram. 5
3. (a) Explain the principle operation of single stage CE amplifier with neat diagram. 5
(b) Draw neat diagram of CB, CE and CC configuration using $n-p-n$ transistor. 5
4. Describe the working principle of LVDT with neat diagram. 10
5. Explain the working of superheterodyne radio receiver with neat block diagram. 10
6. (a) Write a short note on Zener diode. 5
(b) Describe the operation of CRO with a neat block diagram. 5