

Yashwantrao Chavan college of Science, karad

B. Sc. Computer Science Entire Part-I (Sem.-I)

Subject : Electronics

Paper VI-Electronics Device and Circuit I

Question Bank

Paper I: Electronics Devices and Circuits I

A) Long Answer questions

- 1) Explain construction of carbon composition resistor with its colour code method
- 2) Explain classification of capacitor and explain electrolytic capacitor
- 3) Explain types of inductors with its applications
- 4) Explain any one type of transformer
- 5) Explain construction and working of electromechanical relay
- 6) Explain ohm's law
- 7) Explain Kirchoff's current law
- 8) Explain Kirchoff's voltage law
- 9) Explain voltage divider rule
- 10) Explain current divider rule
- 11) State thevenin's theorem and write its steps
- 12) State Norton's theorem and write its steps
- 13) Explain P-N junction diode with its forward and reverse biasing
- 14) Write a note on zener diode and explain its parameter
- 15) Explain construction and working of photodiode
- 16) Explain construction and working of LED
- 17) Explain construction and working of BJT
- 18) Explain CB configuration of BJT
- 19) Explain CC configuration of BJT
- 20) Explain CE configuration of BJT
- 21) Explain transistor as an amplifier
- 22) Explain transistor as a switch

B) Short answer questions

- 1) Write a short note on switches
- 2) Write a short note on coaxial cable
- 3) Write a short note on twisted pair cable
- 4) Write a short note on fiber optic cable
- 5) Write a short note on ideal and practical voltage source
- 6) Write a short note on ideal and practical current source
- 7) Write a short note on internal resistance
- 8) Write a short note on seven segment display
- 9) Explain relation between α and β
- 10) Draw the symbol and write application of
 - 1) LED
 - 2) Transistor
 - 3) Transformer
- 11) Explain colour code method
- 12) Explain Kirchoff's current law
- 13) Explain Kirchoff's Voltage law
- 14) Write a short note on LED
- 15) Write a short note on Photodiode
- 16) Explain P-N junction diode
- 17) Explain BJT
- 18) Explain ohm's law
- 19) Write a short note on zener diode
- 20) Write a short note on transformer