

BIJU PATNAIK INSTITUTE OF TECHNOLOGY MOTTO, PURI
(GOVERNMENT POLYTECHNIC, PURI)

BASIC ELECTRONICS

MODEL QUESTIONS

1. What is Electronic Emission and explain its types.
2. Explain classification of Solid according to electrical conductivity with respect to energy band diagram.
3. Explain principles of working of different types of Rectifiers and their merits and demerits Explain V-I characteristics of PN junction diode.
4. Briefly explain Zener diode and show how it will act as a voltage regulator
5. What is Modulation & demodulation? Explain each type of Modulation in detail.
6. What is efficiency and ripple factor of rectifier and explain bridge type rectifier in detail.
7. What is PIV and explain π - Filter with output waveform and circuit diagram.
8. Explain LED in details with applications.
9. What is current amplification factor and derive a relationship between α , β , γ .
10. What is UJT and explain p-channel FET in details.
11. Explain different types of Transistor Configuration and state output and input current gain relationship in CE, CB and CC configuration.
12. Explain working of a single-phase RC coupled Amplifier and discuss its frequency response and gain verses bandwidth relationship.
13. Explain working principle and application of LVDT.
14. Briefly explain Block diagram of CRO and applications of CRO
15. What are essentials of Transistor oscillators and describe its classifications.
16. Explain D.C power supply system with help of block diagrams only.
17. Explain working of Super heterodyne Radio Receiver.
18. Explain block diagram of Radio Transmitter & Receiver.