

2006 CALICUT UNIVERSITY
I / II SEMESTER B.TECH ENGINEERING DEGREE EXAMINATIONS
BASIC ELECTRONICS
(EC, BM.)

JUNE 2006

TIME::3 HOUR
MARK:100

ANSWER ALL QUESTIONS

PART A [8*5=40]

- I. 1. Explain magnetic focusing.
2. How does multimeter measure current? Explain.
3. What are the characteristics of inductor?
4. Draw the d.c. model of a zener diode and explain.
5. Why is biasing required? What are the various types of biasing?
6. How is 2 point chosen? Explain.
7. Why does PIV differ for different rectifiers?
8. Which type of filter is independent of load? Why?

PART B [15*4=60]

- II. 1. Explain, in detail, the electron motion in perpendicular electric and magnetic fields?
Or
2. Quantitatively explain electrostatic and magnetic deflection sensitivities.
- III. 1. What are the different types of capacitors? Explain their characteristics.
Or
2. What are three configurations of a BJT amplifier? Compare the four important parameters of all the three.
- IV. 1. Why is the operating point called so? How is this important in the analysis of amplifiers?
Or
2. What are the different compensation circuits used in BJT amplifiers? Explain any two.
- V. 1. Draw a center tapped FWR and bridge type FWR diagrams and explain their operation. Why is bridge type preferred?
Or
2. Draw a series voltage regulator with short circuit protection and explain the operation.

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