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First/Second Semester B.E. Degree(CBCS)Examination

Basic Electronics

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1.
 - a. Define following diode parameters:
 - i) PIV
 - ii) Knee voltage
 - iii) Dynamic resistance. (06 Marks)
 - b. With neat circuit diagram and waveforms, explain the working of a half wave rectifier. (06 Marks)
 - c. Draw common emitter circuit and sketch the input and output characteristics. Also explain operating regions by indicating them on characteristics curve. (04 Marks)

OR

2.
 - a. Explain zener diode voltage regulator circuit with no load and with load. (06 Marks)
 - b. The i/p to the Full wave rectifier is $v(t) = 200 \sin 50t$. If R_L is $1k\Omega$ and forward resistance of diode is 50Ω , find:
 - i) D.C current through the circuit
 - ii) The A.C (rms) value of current through the circuit
 - iii) The D.C output voltage
 - iv) The A.C power input
 - v) The D.C power output
 - vi) Rectifier efficiency. (06 Marks)
 - c. Derive the relationship between α and β . Calculate the value of I_c , I_e for a transistor that has $\alpha = 0.98$ and $I_b = 100\mu A$. (04 Marks)

Module-2

3.
 - a. What is a Dc load line? Explain Base biased method with necessary equations. (05 Marks)
 - b. Explain the characteristics of an Ideal Op-amp. Mention two applications of Op-Amp. (06 Marks)
 - c. With a neat circuit diagram, explain the Voltage Divider Bias circuit using approximate analysis. (05 Marks)

OR

4.
 - a. Design the voltage divider bias circuit to operate from 12 V supply. The bias conditions are $V_{CE}=3V$, $V_E=5V$, and $I_c = 1mA$. (05 Marks)
 - b. Derive the expression of 3 input summing amplifier. (05 Marks)
 - c. Explain voltage follower with neat circuit and necessary equations. (06 Marks)

Module-3

5.
 - a. Convert $(1101101)_2 = (\quad)_{10}$ and $(69)_{10} = (\quad)_2$. (04 Marks)
 - b. Convert $(1010111011110101)_2 = (\quad)_{10}$ and $(FA876)_{16} = (\quad)_2$. (04 Marks)
 - c. State and prove Demorgan's Theorem. (08 Marks)

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