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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: (06 Marks)
 i) PIV ii) Knee voltage iii) Dynamic resistance.
 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: (06 Marks)
 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.
 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)

Electronic Question Paper 2014 Trade Theory

M Woodhall



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