

(3 Hours)

[ Total Marks : 80

- N.B. :** (1) Question No. 1 is compulsory.  
 (2) Answer any three from remaining five questions.  
 (3) Figures to the right indicate full marks.  
 (4) Assume the data if it is necessary.

**Q.1** Answer any four from the following

[20]

- Explain thermal runaway and stabilization
- Barkhausen criterion for sustained oscillation
- Zener diode as a voltage regulator
- Explain criterion for the selection of emitter by pass capacitor in an CE amplifier.
- FET as differential amplifier

**Q.2** a) Explain how the amplification factor, input impedance, output impedance and bandwidth are modified with negative feedback

[10]

b) Explain the operation of C type filter in full wave rectifier with all necessary diagrams and waveforms.

[10]

**Q.3** a) Explain UJT as a relaxation oscillator in detail. Find frequency of oscillator

[10]

b) What is MOSFET? Explain the construction and characteristics of N – channel MOSFET with the help of suitable diagram.

[10]

**Q.4** a) Derive the expression for voltage gain, current gain, input impedance and output impedance of CB amplifier.

[10]

b) Explain the AC Analysis of Dual Input Unbalance Output Differential Amplifier.

[10]

**Q.5** a) Explain the working of CS FET amplifier.

[10]

b) Derive the equation for frequency of oscillation of Colpitts oscillator. Also derive the condition for sustained oscillation.

[10]

**Q.6** a) What is Darlington pair? What are its features? How to bias the pair? Derive expression for its ac parameters.

[10]

b) Explain the differences between LC and RC oscillators. Give examples of each of oscillators with frequencies.

[10]

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**S. K. Bhattacharya, L. Mathew**



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