

b) Attempt any TWO of the following:

- i) Draw the circuit diagram along with the necessary waveforms for fullwave bridge rectifier.
- ii) Calculate the gain of inverting and noninverting amplifier if  $R_f = 21k\Omega$  and  $R_i = 3k\Omega$ .
- iii) List any four advantages and applications of CNC system.

2. Attempt any FOUR of the following:

16

- a) What is thermal runaway? How it is avoided?
- b) How transistor works as a switch also draw a necessary circuit and waveform for it.
- c) Sketch circuit diagram for integrator using opamp also draw output waveforms for square wave and sine wave input.
- d) Sketch circuit diagram for AMV using IC555 also draw necessary waveforms and write the equation for output frequency.
- e) Compare RC and LC oscillator w.r.t. following points :
  - i) Voltage gain
  - ii) Oscillating frequency
  - iii) Components used for oscillation
  - iv) Application.
- f) What is full adder? Sketch logical circuit for it along with its truth table.

3. Attempt any FOUR of the following:

16

- a) Compare RC coupling and transformer coupling w.r.t. following points
  - i) Coupling element
  - ii) Distortion
  - iii) Voltage gain
  - iv) Applications

# Basic Electronics And Mechatronics Sample Paper

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**Zhang,Jian Guo Qiao,Jia Min Xu**

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