1. Answer Any Three questions of the following: (3x10=30)
   (a) Draw the symbols of: SCR, TRIAC, Tunnel Diode, JK Flip Flop, Crystal Mic, Thyristor, Power transformer, Co-axial, PUT, and Wattmeter.
   (b) Transistor series voltage regulator circuit.
   (c) UJT Oscillator to control the firing of the SCR.
   (d) Moving coil meter with damping.
   (e) Bridge rectifier with TJ filter and waveform.

2. Attempt Any Two questions: (2x15=30)
   (a) Block diagram of an AM transmitter.
   (b) Block diagram of an Digital voltmeter.
   (c) Draw the diagram of Full Adder using XOR, AND and OR gates.

3. Draw the block diagram of communication receiver. (20)
   Or
   Draw the block diagram of colour TV receiver.

4. Attempt Any Three questions: (3x15=45)
   (a) Block diagram of an analog to digital converter (ADC).
   (b) Draw the Master Slave JK Flip Flop.
   (c) Draw neatly Front Panel operating controls of CRO.
   (d) Draw Cross section view of Electrostatic deflection CRT.
   (e) Draw Circuit diagram of TV receiver horizontal output stage.

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