

## Consumer Electronics

## Synoptics

Sem VI TE ETRX

Q1)

a. A

**b. A**

C. E

d. B

e. C

Q2)

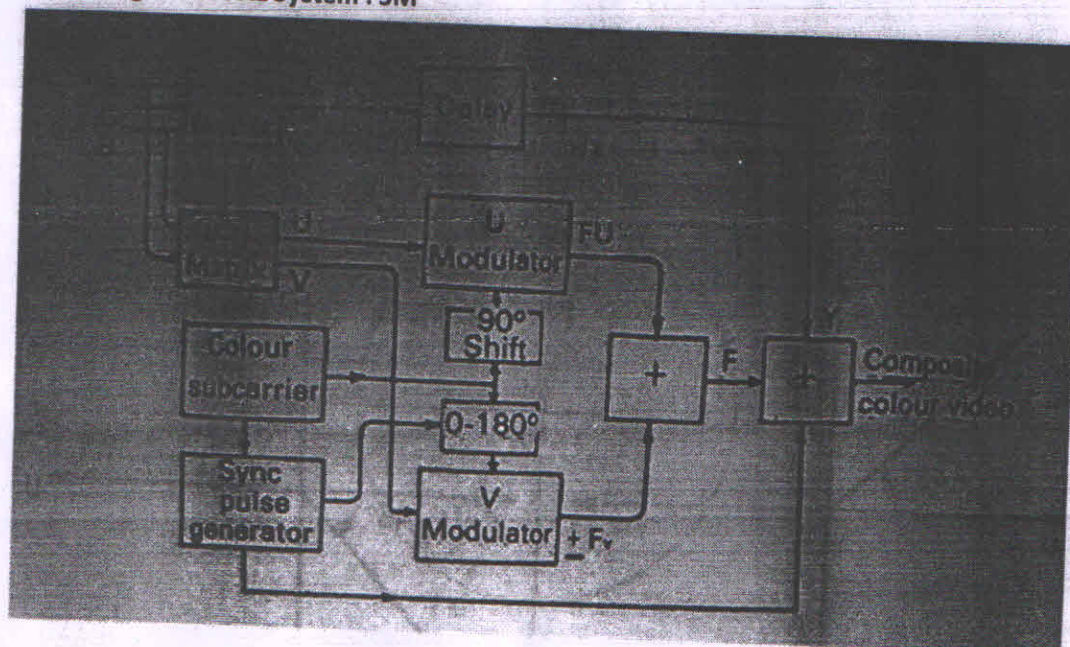
Appropriate definition of each term carry 1M each.

1. **Tidal Volume** : The volume of air moved into or out of the lungs during quiet breathing.
2. **IRV: Inspiratory reserve volume**: the maximal volume that can be inhaled from the end-inspiratory level
3. **ERV: Expiratory reserve volume**: the maximal volume of air that can be exhaled from the end-expiratory position
4. **FEV1** : Maximum velocity of the air exhale in one sec
5. **Vital Capacity** : The volume of air breathed out after the deepest inhalation.

**OR**

### Description of PAL system : 2M

### Block Diagram of PAL System : 3M



Q3)

Description of Active Noise Cancelling Headphones 2.5 M

Description of Passive Noise Cancelling Headphones 2.5 M

OR

Description of LCD display : 2M

Schematic of typical internal structure of LCD display : 3M

Q4)

Description of Ink Jet printer : 2M

Schematic diagram of ink jet printer : 3M

### Continuous Mode Ink-Jet Technology

