

### Unit III : Assessment Question Bank

#### Lecture 45

1. A balanced delta connected load of impedance  $(8-j6) \Omega$  per phase is connected to a three phase 230V , 50Hz supply.  
Calculate i) Line current ii) power factor iii) reactive power.

2.

A 3-phase delta connected load, each phase has a impedance of  $(25+j40) \Omega$ . The load is fed from the secondary of a 3-phase star connected transformer which has phase voltage of 240V. Draw the circuit diagram and calculate

- i) current in each phase of the load
- ii) voltage across each phase of the load
- iii) current in the transformer secondary winding
- iv) power supplied to the load.