

### Unit III: Assessment: Assignments

#### ASSIGNMENT - LECTURE 55

The following table gives average consumption hours for various loads in a typical household:

S.No.	Name of the Appliance	Wattage	Average consumption hours per day
1.	Geyser	2KW	30 minutes
2.	Water Pump	750W	45 minutes
3.	Four Incandescent Bulbs	60W per bulb	8 hours each
4.	Three Ceiling Fans	75W per fan	10 hours each
5.	Refrigerator	100W	24 hours
6.	Television	50W	10 hours

Considering a 30 day month

Determine the monthly bill for the above consumption considering a domestic connection of 5KW sanctioned load with the tariff details listed in a table below:

S.No.	Type of Charges	Tariff Details
1.	Fixed Charges for sanctioned load	Rs. 50/- for first KW Rs. 60/- for every additional KW
2.	Energy Consumption Charges	0 to 30 units ----- Rs. 3.50 per unit 31 to 100 units ----- Rs. 4.95 per unit 101 to 200 units ----- Rs. 6.50 per unit 201 to 300 units ----- Rs. 7.55 per unit
3.	Fuel Adjustment Charges	@ 14 paisa per unit of energy consumed

Consider an overall tax of 8% on total charges.