**Test Case Design –Black Box Testing Techniques Exercises**

**1.1 Exercise 1**

The Electricity bill computed by the service provider has a fixed component as well as a running component. All customers are charged at a rate of $40 flat as a fixed component. In addition to this, they would be changed a running component and/or a fine, depending upon their amount of consumption or usage.

The rules for this are given below:

* If the number of units consumed by the consumer is less than 10 units, then the running cost is not charged for the consumer.
* If the number of units is between 11 and 20, then the running cost is charged at $1 per unit.
* If the number of units is between 21 and 40, then the running cost is charged at $2 per unit.
* If the number of units exceeds 40, then the running cost is charged at $5 per unit.
* Use Boundary Value Analysis to decide on the test cases to be designed.

Use Equivalence class partitioning & Boundary Value Analysis to decide on the test cases to be designed (10 Marks)