**Scenario 1:**

Select equivalence partitioning based inputs and make test cases after classifying them in valid and invalid compartments. Mobile Number with 10 digits.

|  |  |  |
| --- | --- | --- |
| **EQUIVALANCE PARTIONING** | | |
| **INVALID** | **VALID** | **INVALID** |
| Less than 10 digits | 10 digits | Greater than 10 digits |
| 034988889 | 0349888898 | 034988889888 |
| 234 | 0214589763 | 02934632183 |
| 234@ | 2349832789 | 1203813@949820 |
| 234 58 | 4736234728 | 3283 239392932 20023 |

**Scenario 2:**

Select BVA technique and make test cases after classifying them to valid and invalid categories.

|  |  |  |
| --- | --- | --- |
| **BOUNDARY VALUE ANALYSIS** | | |
| **Test Case ID** | **Input** | **Valid/invalid** |
| TC-01 | **1** | Invalid |
| TC-02 | **49** | Invalid |
| TC-03 | **0234897361** | Valid |
| TC-04 | **873281388320** | Invalid |
| TC-05 | **293488382929389** | Invalid |

**Scenario 3:**

**﻿**An integer field shall contain values between and including 1 to 15. By applying EP which of the following is a valid collection of equivalence classes for the given scenario.

* Less than 1, 1 through 15, more than 15
* Negative numbers, 1 through 15, above 15
* Less than 1, 1 through 14, more than 15
* Less than 0, 1 through 14, 15 and more 3

The valid collection of equivalence classes based on EP is:

* Less than 1
* 1 through 15
* More than 15

**Scenario 4:**

﻿In a system designed to work out the tax to be paid:

An employee has £4000 of salary tax free. The next £1500 is taxed at 10%.The next £28000 is taxed at 22%. Any further amount is taxed at 40%. Which of these groups of numbers would fall into the same equivalence class?

* £4800; £14000; £28000
* £5200; £5500; £28000
* £28001; £32000; £35000
* £5800; £28000; £32000

The correct equivalence class from the given options is:

* £4800; £14000; £28000

**Scenario 5:**

**﻿**Purchase discount is 0% for up to 500 US$, 5% is added for each additional 500 US$ up to 2000 US$, and 25% is applied for above 2000 US$. Which test inputs in US$ would be selected for valid equivalence partitions?

1. 250, 700, 1400, 1800, 4000
2. 250, 1400, 3000
3. -100, 250, 650, 1300, 1700, 2900
4. 200, 720, 1600, 1800, 2100

The Equivalence Classes are:

1. Up to 500 US$, where the discount is 0%.
2. Between 500 US$ and 2000 US$, where 5% is added for each additional 500 US$.
3. Above 2000 US$, where 25% is applied.

So, the option A cover the equivalency classes very clearly, A is correct option.