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?

a) 250, 700, 1400, 1800, 4000
b) 250, 1400, 3000
c) -100, 250, 650, 1300, 1700, 2900
d) 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.