1) One of the fields on a form contains a text box which accepts numeric values in the range of 18 to 25. Identify the invalid Equivalence class.
a)   17
b)   19
c)   24
d)   21
Ans   a.17

2) Input Box should accept the Number 1 to 10. Identify Equivalence partitioning and Boundary values for testing
Ans. Equivalence partitioning class [-infinity - 0],[1 - 10],[11 - infinity]
     Boundary values 0,1,9,10,11

3) Why Equivalence & Boundary Analysis Testing is used?
Ans   Equivalence Partitioning is used to reduce the total number of test cases to a finite set of testable test cases, still covering maximum requirements.
Boundary value analysis is used to find the errors at boundaries of input domain rather than finding those errors in the center of input

4) Write Test Cases For This Scenario:
 If A Job Fails It Should Get Restarted Again. This Should Happen For Three Times. If It Fails again, then It should quit
Ans.
● Enter the required data and click the start button if it fails then it should come out and get restarts and Log=1;
● Enter the required data and click the start button if it fails then it should come out and get restarts and Log=1+1;
● Enter the required data and click the start button if it fails then it should come out and get restarts and Log=2+1;
● If log =3 then quit.

5) Write The Test Case/scenario For A Login Page?
Ans.
TestCaseId1.Condition:Verify valid username and password and press submit
Expected:login successful.
TestCaseId2.Condition: Verify invalid username and invalid password and press submit
Expected:login unsuccessful.
TestCaseId3.Condition:Verify invalid username and valid password and press submit
Expected:login unsuccessful.
TestCaseId4.Condition:Verify valid username and invalid password and press submit
Expected:login unsuccessful.

TestCaseId5.Condition:Verify empty fields and press submit
Expected login unsuccessful.
TestCaseId6.Condition:Enter valid username and password press cancel
Expected:fields reset.
TestCaseId7.Condition:Enter valid username and invalid password press cancel ;
Expected:fields reset.
TestCaseId5.Condition:Enter invalid username and valid password press cancel
Expected:fields reset.

6) What Are The Test Cases/scenario For Mouse? (To verify the functionalities of a mouse)
Ans.
TestCaseId1.
Condition:Connect to the computer/laptops
Expected:Mouse Working
TestCaseId2.
Condition:Left click of the mouse
Expected:Select and execute
TestCaseId3
.Condition:Right click of the mouse
Expected:Show options
TestCaseId4.
Condition:.Verify the time duration between two left clicks, in order to consider it as double click
Expected:mouse working
TestCaseId5
.Condition:verify if scroll is present at the top or not
Expected:Mouse working
TestCaseId6
.Condition:Verify the speed of mouse pointer
Expected:Mouse working
TestCaseId7.
Condition:Check the pressure required for clicking the mouse buttons
Expected:Mouse working

7) Write test cases/scenarios to verify the functionality of a printer?
Ans.
TestCaseId :1
Condition : Connect wire of the printer to the electric socket
Expected : Printer Working
TestCaseId : 2
Condition : Connect to a computer system .
Expected: Printer Working

TestCaseId : 3.
Condition: Taking blank pages as an input resource
Expected : Printer Working
TestCaseId : 4
Condition:Availability for both coloured and blank and white ink.
Expected:Printer Working
TestCaseId: 5
Condition:Correct command from the computer.
Expected:Print Correct Document
TestCaseId5.Condition:Incorrect command from the computer.
Expected:Should not print
TestCaseId7.Condition:Only single print for single command
Expected:Printer Working

8) Write down test case/scenarios to list down possible steps to test a smart phone
Ans.
TestCaseId1.
Condition:.Verify Splash screen appears while we on the phone.
Expected:Phone is Working in right way
TestCaseId2
.Condition:Verify Power button available.
Expected:Phone is Working in right way
TestCaseId3
.Condition:Verify Volume button available.
Expected:Phone is Working in right way
TestCaseId4
.Condition:Verify Camera and speaker is present .
Expected:Phone is Working in right way
TestCaseId5.
Condition: Verify On pressing power button mobile phone should get off if its is on and vice versa
Expected:Phone is Working in right way

9) There is a text box which accepts numbers from 1-10. List down the test data which needs to be tested for Boundary value analysis.
Ans. Boundary values 0,1,9,10,11

10) Suppose you have a bank account that offers variable interest rates:
5% for the first $1000 credit;
10% for the next $1000;
And 15% for the rest.
If you wanted to check that the bank was handling your account correctly what valid input partitions might you use?
Ans. [0 - 1000],[1001 - 2000],[2001- infinity]

11) A mail order company charges $2.95 postage for deliveries if the package weighs less than 2 kg, $3.95 if the package weighs 2 kg or more but less than 5 kg, and $5 for packages weighing 5 kg or more.
Generate a set of valid test cases using equivalence partitioning.
Ans.   [0-2 kg],[2kg to 5kg]and [5 kg to infinity]

12) Boiling point of water is at 100 degrees Celsius. Determine the boundary values
Ans. boundary values will be 99, 100 and 101
  Or
boundary values will be 99.9, 100 and 100.1

13) Exam pass – for 40 marks; merit at 60 and above; and distinction at 80 and above. Determine the boundary values

Ans. value boundaries would be 39, 40, 41 for pass
                                         59, 60, 61 for merit
                                         79, 80, 81 for distinction

14) Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries:
a)   1000, 5000, 99999
b)   9999, 50000, 100000
c)   10000, 50000, 99999
d)   10000, 99999
e)   9999, 10000, 50000, 99999, 100000
Ans. c)   10000, 50000, 99999

15) A program validates a numeric field as follows:
        Values less than 10 are rejected, values between 10 and 21 are accepted, values greater than or equal to 22 are rejected. which of the following input values cover all of the equivalence partitions?
        a. 10,11,21
        b. 3,20,21
        c. 3,10,22
        d. 10,21,22
Ans. b.3,20,21

16) Which test cases are written first: white boxes or black boxes?
Ans. Normally Black Box Test Cases are written first and White Box test cases later.

17) Can you explain requirement traceability and its importance?

RTM is a document that maps and traces user requirement with test cases. The main purpose of Requirement Traceability Matrix is to see that all test cases are covered so that no functionality should miss while doing Software testing.

Importance

- Requirement Traceability Matrix helps to link the requirements, test cases, and defects accurately.
- The whole of the application is tested by having requirement traceability (End to End testing of an application is achieved).
- Requirement Traceability Matrix aids for software application getting tested in the stipulated time duration, the scope of the project is well determined and its implementation is achieved as per the customer requirements and needs and cost of the project is well controlled.
- Defect Leakages are prevented as a whole of the application is tested for its requirements.