

**Q1. 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.17**

**Q2.Input Box should accept the Number 1 to 10. Identify Equivalence partitioning and Boundary values for testing.**

**Ans. Equivalence Partitioning:-**

- a) Less than 1(Invalid)
- b) Value between 1 to 10(Valid)
- c) Values greater than 10(Invalid)

**Boundary Values:-**

- a)Less than 1(Invalid)
- b)At value 1 i.e. Boundary value(Valid)
- c)At value10 i.e boundary value(Valid)
- d)Greater than 10(Invalid)

**Q3. Why Equivalence & Boundary Analysis Testing is used?**

**Ans.**Equivalence & Boundary Analysis is done to figure out the number of minimal test cases that can cover full testing of any particular feature without compromising effectiveness of testing.

**Q4.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.**<https://docs.google.com/spreadsheets/d/1E8QlaGn88KBOVUI50kK0is7aE8Et0Dy-ko0yD6c2K5k/edit?usp=sharing>

**Q5.Write The Test Case/scenario For A Login Page?**

**Ans.**[https://docs.google.com/spreadsheets/d/1hVBm1hmA5r-OKE6E4j1\\_J4hYadHr16HMz-qppbZ0vGg/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1hVBm1hmA5r-OKE6E4j1_J4hYadHr16HMz-qppbZ0vGg/edit?usp=sharing)

**Q6.What Are The Test Cases/Scenarios For Mouse? (To verify the functionalities of a mouse)**

**Ans.**<https://docs.google.com/spreadsheets/d/1BlmwfrYRuwyFxzrovSv3RuL7cosZyk63OkOE3XT30/edit?usp=sharing>

**Q7.Write test cases/scenarios to verify the functionality of a printer?**

**Ans.**<https://docs.google.com/spreadsheets/d/1Esj3AlyzLsbJvxIxl4CwwMHXxaV2dNfwz556sey0Ng/edit?usp=sharing>

**Q8. Write down test cases/scenarios to list down possible steps to test a smartphone.**

**Ans.** [https://docs.google.com/spreadsheets/d/1cZQJnM89vj\\_VrIIn2GIDNjh2sPnaCO0mY4eC2\\_ITKS/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1cZQJnM89vj_VrIIn2GIDNjh2sPnaCO0mY4eC2_ITKS/edit?usp=sharing)

**Q9. 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.**
- a) text length less than 1 i.e empty field(Invalid)
  - b) text having length 1 i.e. Boundary Value(Valid)
  - c) text having length 10 i.e. Boundary value(Valid)
  - d) text having length greater than 10 (Invalid)

**Q10. 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.**
- a) balance amount 1\$ rate of interest must be 5%
  - b) balance amount 1000\$ rate of interest must be 5%
  - c) balance amount 1001\$ rate of interest must be 10%
  - d) balance amount 2000\$ rate of interest must be 10%
  - e) balance amount 2001\$ rate of interest must be 15%
  - f) balance amount greater than 2001\$ rate of interest must be 15%

**Q11. 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.**
- a) package weighs less than 2kg then postage charge is 2.95\$
  - b) package weighs between 2kg to 5kg then postage charge is 3.95\$
  - c) package weighs 5kg or more then postage charge is 5\$

**Q12. Boiling point of water is at 100 degrees Celsius. Determine the boundary values.**

**Ans. Boundary values:-**

- a) At 99 (invalid)
- b) At 100 (valid)
- c) At 101 (valid)

**Q13. Exam pass – for 40 marks; merit at 60 and above; and distinction at 80 and above. Determine the boundary values.**

**And. Boundary Value:-**

- a)marks 39 (fail)
- b)marks 40(pass)
- c)marks 59(pass)
- d)marks 60(merit)
- e)marks 79(merit)
- f)marks 80(distinction)
- g)marks 81 (distinction)

**Q14.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.**

**Q15. 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.c) 3,10,22**

**Q16.Which test cases are written first: white boxes or black boxes?**

**Ans.**White box testing is done first because it is done by the developer itself while the black box test cases are written earlier than white box test cases.

**Q17.Can you explain requirement traceability and its importance?**

**Ans.** Requirement Traceability is a document that maps and traces user requirements with test cases. The main purpose of the 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.