1) Which of the following is not true about use case Modeling?

☐ usecase modelling captures how system will perform a function

☑ less effective isolation technique

☐ usefull for gathering behavioural aspects and documenting functionalities

☑ usefull for gathering non-functional aspects and documenting functionalities

☐ identifies actors and behaviour.

2) Which of the following are, TRUE is NOT an ~~NOT~~ example of ACTOR

☐ Customer

☐ Web Client

☐ Passenger

☐ Student

☑ User registration

☑ Update Payment

3) Which of the following are TRUE with use Cases.

☑ Can be used throughout SDLC in a project

SM

- ☑ useful for gathering behavioural aspects of the system.
- ☐ can be easily modelled for functional & performance requirement
- ☑ effective when multiple user types are involved

4) what is actor in Use case diagram.
- ☑ actor can be human being, a machine, or a software
- ☑ Multiple func actor is a role that a particular user plays. when interacting with the system.
- ☐ actor is only human being.
- ☐ end user is not called as actor.

5) UseCase can be performed to Test
- ☐ Performance testing
- ☐ Unit Testing
- ☑ Business scenario
- ☐ Static Testing

6) State True / False.

Use case not used for modelling non-functional requirements - TRUE

7) State True / False

Atleast one testcase should be created for each flow of Use Case — **TRUE**

8) State True/False

Use Case & Use Case Scenario are same — **FALSE**

9) Identify Usecase for following application scenario:

User enters url link, user has to register, then he gets user name & password for login, System the validates the value entered by user. If login details are valid will be able to purchase online and make payments online.

☑ login, user registration, purchase item, make payment
☐ login, user registration, purchase item
☐ login, purchase item, make payment
☐ user registration, login, validation

10) Identify the actor:

Consider faculty feedback system application, app is used by college students, faculties and HOP's.
Student can submit his feedback using the app as

per client request the app should be viewed in hindi/Marathi also.

- ☐ Student, Faculty
- ☑ Student, Faculty, HOD
- ☐ Student
- ☐ Faculty, Student, Client

12) Consider the following Testing scenario, one of the fields of the firm containing a textbox which access alphabets lower or upper case. Identify the invalid equivalence class value.

- ☐ CLASS
- ☐ CLASS
- ☐ CLass
- ☑ CLAO16S

13) Consider the following testing requirement and complete the given statement. ~~used to design test cases~~

Loop testing is the controlled structure testing technique where criteria used to design testcase is that

☐ rely on basic path testing
☐ exercise logical condition in a program
☐ select test path based on the location & uses of variables.
☑ focus on testing the validity of loop constructs in the program.

14) Consider the following scenario, you are testing a model to verify movement of employee in the organisation with buildup process. What kind of testing is this?

Interview process — Jobs offer — hired — promoted — resignation.

☐ equivalence partition
☑ State transition testing
☐ Cause effect graphing
☐ Boundary value analysis

15) Consider the following review process activity and suggest most appropriate review type.

Inspection   a) designer simulates the program

Buddy reviews

b) She/ he shows what program will do with test data supplied by reviewers.

Code walkthrough

c) simulation shows how different pieces of co-system interact to expose redundancy & many miss details from inspection to

Peer reviews

d) different from inspection & needs participants to be ready with the test cases.

16) Complete the follow statement :

Cyclomatric complexity matric provide the designer with information regarding the number of

☐ cycles in the program
☐ errors in the program
☑ Independent logical paths in the program
☐ Statements in the program

17) Which of the following are TRUE about VNU model

Testing is done after coding — False.

In VNV, modules are tested against user required.
— TRUE

In VNV model, only verification is done — False.

It only models the testing phase — False.

18) Which of the following is NOT integration strategy:

- ✔ design based
- ☐ big bank
- ☐ bottom up
- ☐ top down.

19) Which of the following application attributes will be validated during performance testing.

- ☐ Throughput
- ☐ Response time
- ☐ utilization
- ✔ All of the above
- ☐ None of the above

20) Which is most important test case to test triangle formation

☐ test case to find Types of triangle formed
☐ boundary value condition for length of sides
☑ test case to find whether the $\triangle^{le}$ is formed / not
☐ None of the above

21) which is the best candidate for Test automation
    ☐ Adhoc test
    ☑ Regression test
    ☐ Exploratory test
    ☐ Integration test

22) Complete the following statements.

    Once Testing top module is done then any one of the next level module is added to testing. This continues till last module at the lowest is tested. This type of testing is called as _____

    ☐ White-Box testing
    ☐ Black-Box testing
    ☑ Top-down incremental testing
    ☐ Regression testing

23) Complete the following statement:

During bottom-up integration testing to coordinate test cases Input & output, we need to write.

- [ ]
- [ ] more drivers than stubs
- [x] drivers
- [ ]

24) Why do you measure testing matrix?

- [ ] Helps in identifying potential problems before project starts.
- [x] getting early warnings
- [x] Helps to predict long term direction and scope for an organisation.
- [ ] Important indicator for effectiveness of project planning.
- [x] basis for deriving process improvement.

25) which statement correctly applies the test matrix
- [ ] Provides methods to flat options for fast decision making
- [ ] Provides means for control status reporting.
- [ ] Helps identifying risk areas that require more testing.
- [ ] identify critical process that will be mentioned statistically
- [x] all of the above
- [ ] none of the above

26) which of the following is valid option for below formula.

Ans

$$\text{Percentage of cost of quality} = \frac{\left[\begin{array}{l}\text{Total efforts spent on prevention +}\\\text{total efforts spent on appraisal +}\\\text{total efforts spent on failure/rework}\end{array}\right] \times 100}{\text{Total efforts spent on project}}$$

1) which of this types of testing are done as a part of system testing

- ✔ functional testing
- ☐ acceptance testing
- ☐ theta testing
- ☐ Beta testing

2) What would happen if configuration management is not maintained?
- ☐ all the project items are organised
- ✔ wrong version number or codes exists for review & delivery
- ☐ If we set tracking of who changed the artifact & when is maintained
- ☐ Configuration management becomes more effective

3) In OOPS, what is the difference between abstract class and interface
- ☐ Both abstract class and interface can have implementation for some methods
- ☐ earlier OOP programing languages are not having a support for abstract class.

☐ interface can have implementation have implementation for some methods but abstract class don't contain implementation.

✔️ abstract class encapsulates some common behaviour for used by related classes whereas interface is encapsulated some common behaviour for used by unrelated classes.

4) **Given CSS3 code :**

```
<style>
<p>     {
        /* Line1 */
        }      </p>
</style>.
```

✔️ Background-color : RGBA (255, 0, 0, 0.5);

☐ Background-color : HALS (120, 65%, 75%, 0.3);

☐ Background-color : green

☐ Background-color : #FF (0, 0, 0, 5);

5) which statements are true regarding Subqueries.

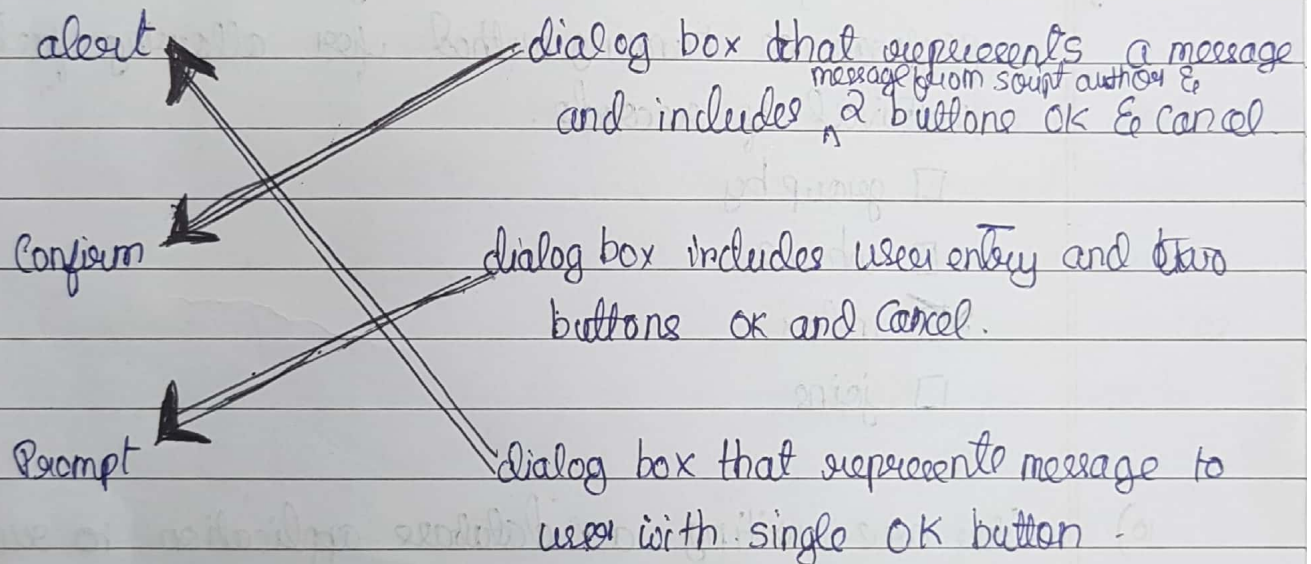☐ Subqueries are not at all useful as result of all the query can be obtained using a joins.

✓ Main query and subquery can get data from different tables.

☐ Main query and subquery must get data from same tables

☐ Subquery cannot contain order by & group by clause

6) Match the following

alert   dialog box that represents a message and includes a buttons OK & cancel message from soript author &

Confirm   dialog box includes user entry and two buttons OK and Cancel.

Prompt   dialog box that represents message to user with single OK button

7) which is the correct CSS syntax

☐ { h1 g color : black }

✓ h1 { color : black }

☐ h1 : color = black

☐ h1 : color = black

8) which tag can be used to apply the style format to

the HTML ?

☐ decoration

☐ designs

✔ style

☐ format

9) You are running query against relational database
Which object or clause will you use as a
performance tunning method for allowing faster
retrival of records.

☐ group by

☐ where

✔ index

☐ joins

10) You are writing a database application to run
on your dbms you do not want your users to
be able to view and underline table structure
at the same time you want to allow contain
update operations.

Refering to above database scenario which database
structure will you deploy?

☐ table index

✔ view

☐ sequence

☐ synonym

11) which of the following is not the correct term associated with view

- ☑ they are commonly used as read only objects
- ☑ they can be used with check option
- ☐ can update all tables of which it is based very easily.
- ☑ can update all tables of which it is based in same case.

12) ~~Which of the following is not correct~~

An educational institution has three branches in state. Details of the students were stored in student table. When details are stored the branch name column should contain branch name of any of these places. What type of constraint can be applied to the branch name column?

- ☐ Primary key constraint
- ☐ Referal constraint
- ☑ check constraint
- ☐ unique key constraint

13) which of the following join is not available in oracle proprietivity join syntax.

- ☑ fullouter join
- ☐ self join
- ☐ Non-equi join
- ☐ equi join

14) Ramesh wants to increase the salary by 15%. for all the employee working in a organisation. What should be the query.

($salary = salary * 0.15;$)

update employee set salary = salary + new salary