B. Sc. (I. T.) (Sem. V) (CBCS) Examination

October - 2019

CS - 27 : Software Testing & Project Management

(Old Course)

Faculty Code : 003

Subject Code : 004503

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1 Answer the following questions :   **20**

(1) Documentation is one of the _____ activities for project development.

(2) Give full form of QC.

(3) Test Cases along with Instructions is called Test _____.

(4) Software stops working is called Software _____.

(5) Inspection is one of the _____ types of testing.

(6) Black Box is _____ testing type of testing techniques.

(7) Give another name of waterfall model.

(8) Which model contains Risk Analysis phase ?

(9) Software, which are free to use and also you can change its code is called _____ source software.

(10) Give full form of AUT in context of Software Testing.

(11) Give full form of FP.

(12) Which one is better option in Project Estimation LOC based or FP based ?

(13) Which software is used to create Timeline chart ?

(14) Which software is used to create Data Flow Diagram ?

(15) Give full form of PERT.

(16) Give full form of UML.

(17) Alpha and Beta Testing are which levels of techniques ?

(18) [I,S,O] is a test case where O stands for _____.

(19) First two phases of waterfall model are also called _____.

(20) Corrective, Adaptive, Enhancement and Preventative are types of _____.

2 (a) Attempt the following : (any **three**)   **6**

(1) Explain Software Implementation.

(2) What is the importance of ISO ?

(3) Explain Defect. How it differs from Error.

(4) Explain Activity Diagram.

(5) Explain Informal Review.

(6) Explain Dynamic Testing.

(b) Attempt the following : (any **three**) 9
    (1) What is Critical Path in Network Diagram ?
    (2) What is the main focus of system testing ?
    (3) Compare and Contrast white box and black box testing.
    (4) Write short note on any testing software like win-runner.
    (5) Draw any class diagram with example.
    (6) How Deadline effects on Project Cost ? Explain.

(c) Attempt the following : (any **two**) 10
    (1) Explain Spiral Model.
    (2) Write Short note on Testing artifacts.
    (3) What are Quality Control Activities ?
    (4) Explain features of Ms.Visio,.
    (5) Write short note on COCOMO.

3 (a) Answer the following questions : (any **three**) 6
    (1) Give formula of Expected Completion Time of a task based on optimistic, pessimistic and probable time.
    (2) Write some nonfunctional requirements for a system ?
    (3) Write short note on Timeline chart.
    (4) Write difference between alpha and beta testing
    (5) What is dynamic testing ?
    (6) What is relation between Quality Assurance and Matured Software Engineering ?

(b) Answer the following questions : (any **three**) 9
    (1) Explain unit testing.
    (2) Write short note on Automated Testing.
    (3) Give benefits of using software like win runner, load runner or QTP.
    (4) In which circumstances Prototype model can be used ?
    (5) What is Big Bang Integration Testing Technique ?
    (6) Any project can be developed by estimating Effort (People per month). Explain term Effort.

(c) Answer the following questions : (any **two**) 10
    (1) Explain LOC based metrics.
    (2) Write short note on Spiral Model.
    (3) What is Ms. Project ? Explain
    (4) Explain Testing Levels.
    (5) Discuss Use Case Diagram with an example.