

**Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot**  
Affiliated to Saurashtra University, Rajkot

**SEMESTER END EXAMINATION APRIL -2019**

**Bachelor of Computer Application / B.Sc. Information Technology**

**16UCACC26 / 16UITCC26 – SOFTWARE TESTING AND PROJECT MANAGEMENT**

*Duration of Exam – 3 hrs*

*Semester – VI*

*Max. Marks – 70*

**Part A (10X1= 10 marks)**

Answer **ALL** questions

1. Write any one LOC based metrics.
2. Write formula and Unit to calculate E (Effort).
3. Task to avoid (stop) risk is called Risk \_\_\_\_\_.
4. Write full form of CPM.
5. Test Case = [I S O] then I, S & O stands for \_\_\_\_\_.
6. Write Formula of Cyclomatic complexity.
7. In which testing techniques software actually used by User?
8. What is the objective of integration testing?
9. What is Non Functional Testing?
10. Write name of any performance testing tool.

**Part B (5X5= 25 marks)**

Answer **ALL** questions

- 11a. Discuss common causes for Project Failure.

**OR**

- 11b. Discuss Project size as a risk factor.

- 12a. Draw chart of Risk Referent Level and explain.

**OR**

- 12b. Explain Principal “Divide and Conquer” and “KISS” rule in context of Project management.

- 13a. Explain Dynamic Testing.

**OR**

- 13b. Explain Equivalent class partitioning and Boundary Value Analysis.

- 14a. Write Short note on White Box Testing Techniques.

**OR**

- 14b. What is Integration Testing? Explain Mixed and Big Bang Approach of Integration Testing.

- 15a. What is Regression Testing? Why it is necessary?

**OR**

- 15b. Why we should use testing tool? How it helps in Regression testing.

**Part C (5X7= 35 marks)**

Answer **ALL** questions

16a. Write short note on Decomposition Techniques

**OR**

16b. Explain Constructive Cost Model.

17a. Explain Time Box Techniques.

**OR**

17b. Explain Principles of Project management, Project management life cycle.

18a. Design Test Case systematically for:

i) Shopping cart process (Add Item)      ii) Shopping cart process (Delete Item)

**OR**

18b. Write short note on Control Structure Testing.

19a. Explain Dynamic Unit Testing with necessary diagram.

**OR**

19b. Write short note on System Testing.

20a. Compare and Contrast Manual and Automated Testing.

**OR**

20b. Write short note on selenium.

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