

(6 pages)

Reg. No. :

Code No. : 5631

**Sub. Code : KCSM 34/
PCSM 33**

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2020.

Third Semester

Computer Science

SOFTWARE TESTING

(For those who joined in July 2016 and afterwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Dromey proposed a Model for analyses the quality of software based on the components in _____.
(a) 1993 (b) 1996
(c) 1998 (d) 1999

2. Who identifies, documents and verifies that correction have been made to the software?
- (a) Project manager
 - (b) Project team
 - (c) SQA group
 - (d) All of the mentioned
3. The testing in which code is checked ———.
- (a) Assumption box testing
 - (b) White box testing
 - (c) System Testing
 - (d) Positive testing
4. Which testing cannot be performed on first build of the software?
- (a) Regression testing
 - (b) Retesting
 - (c) Sanity testing
 - (d) All of the above
5. Which of the following is not a type of non-functional test?
- (a) State – Transition
 - (b) Maintainability testing
 - (c) Documenting Testing
 - (d) Portability testing

6. Which of the following is a form of functional testing?
- (a) Usability
 - (b) Boundary value analysis
 - (c) Performance testing
 - (d) Security testing
7. The purpose of _____ is to provide feedback and visibility about test activities.
- (a) Test Control (b) Test monitoring
 - (c) Test Execution (d) Test Planning
8. Which of the following is the Activities in test management?
- (a) Test Closure
 - (b) Requirement Analysis
 - (c) Test Case Design
 - (d) All of the above
9. Which one of the following is not a indirect measure of product?
- (a) Quality (b) Complexity
 - (c) Reliability (d) Cost

10. Lower and upper limits are present in which chart?
- (a) Control chart (b) Run chart
(c) check sheet (d) Bar chart

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain about Boehm and Dromey Models.

Or

- (b) Write the Role and Benefits of SQA.

12. (a) Discuss about Linear Code Sequence and Jump (LCSAJ) coverage.

Or

- (b) Discuss about Call Graph-based Integration.

13. (a) Discuss about Use Case Based Testing.

Or

- (b) Discuss about Syntax Testing.

14. (a) Discuss about OO Testing.

Or

- (b) Discuss about Evaluation of Test Effectiveness.

15. (a) Discuss about categories of Software metrics.

Or

- (b) Discuss about GQM method and types of metrics.

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about software Development Life Cycle Models.

Or

- (b) Explain about Process Frameworks.

17. (a) Explain about Handling Defects.

Or

- (b) Explain about Control Flow Techniques.

18. (a) Explain about Domain Testing

Or

(b) Explain about Non-functional Testing.

19. (a) Explain about Quality Metrics for OO Software.

Or

(b) Explain about Cloud Testing.

20. (a) Explain about the activities in Test Automation.

Or

(b) Explain about Histogram and Scatter Plot.
