

(6 Pages)

**Reg. No. :** .....

**Code No. : 6103**

**Sub. Code : PCSM 33**

M.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2021

Third Semester

COMPUTER SCIENCE - CORE

SOFTWARE TESTING

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — ( $10 \times 1 = 10$  marks)

Answer ALL questions.

Choose the correct answers :

1. Code fulfils its purpose without waste of resource is referred as
  - (a) reliability
  - (b) efficiency
  - (c) usability
  - (d) testability

2. Which is used for managing software products from initial stage to final retirement of product?
  - (a) software console management
  - (b) software contract management
  - (c) software control management
  - (d) software configuration management
3. Programmers make mistakes during coding. These mistakes are known as
  - (a) Failures
  - (b) Defects
  - (c) Bugs
  - (d) Errors
4. Integration testing techniques are
  - (a) Top down
  - (b) Bottom up
  - (c) Sandwich
  - (d) All of the above
5. In which of the following situations regression testing is not performed?
  - (a) When project manager asks to perform
  - (b) When new functionality is introduced
  - (c) When database system is changed
  - (d) When system is installed on different hardware configuration

6. Which of the following is a form of functional testing?
- (a) Security level testing
  - (b) Boundary value analysis
  - (c) Performance testing
  - (d) Usability testing
7. UML stands for
- (a) Unified modeling language
  - (b) Universal modeling language
  - (c) Uniform modeling language
  - (d) None of the above
8. Agile is a —————
- (a) Sequential
  - (b) Iterative
  - (c) Incremental
  - (d) Both (b) and (c)
9. Which of the following is not a type of histogram?
- (a) Isolated peak
  - (b) Comb
  - (c) Truncated
  - (d) Pie chart

10. Pareto diagrams are a main part of \_\_\_\_\_ steps.
- (a) Measure and analyze
  - (b) Define and measure
  - (c) Define and improve
  - (d) Analyze and control

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Discuss about boehm model.
- Or
- (b) Write in detail about process framework.
12. (a) What is the purpose of testing? Discuss.

Or

- (b) Discuss about data flow testing.
13. (a) Write a note on acceptance testing.
- Or
- (b) Explain use case based testing.

14. (a) Write in detail about agile testing.

Or

(b) Discuss about basics of object oriented systems.

15. (a) Narrate the merits and demerits of automation testing.

Or

(b) Explain the usage of check sheet in quality improvement.

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 the importance of inspections and walkthrough in software quality assurance.

Or

(b) Discuss about software configuration management.

17. (a) Describe all methods of integration testing.

Or

(b) How to handle defects in testing process? Explain.

18. (a) Explain in detail about regression testing.

Or

(b) Discuss decision table in logic based testing.

19. (a) Explain the role of TaaS in cloud computing.

Or

(b) Describe the activities involved in test management.

20. (a) Discuss about the software metrics categories.

Or

(b) What is cause and effect diagram? Explain.

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