

(6 pages)

Reg. No. :

Code No. : 9914

Sub. Code : HCAM 25

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Second Semester

Computer Applications

SOFTWARE ENGINEERING

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. Which of the following is not the characteristic of a software?
 - (a) Software does not wear out
 - (b) Software is flexible
 - (c) Software is not manufactured
 - (d) Software is always correct.

2. Which phase is not available in software life cycle?
 - (a) Coding
 - (b) Testing
 - (c) Maintenance
 - (d) Abstraction
3. _____ are a scenario based technique for requirements elicitation.
 - (a) Modules
 - (b) Use cases
 - (c) Review
 - (d) Walkthrough
4. Comprehensibility check is performed in the requirement _____ process.
 - (a) Verification
 - (b) Validation
 - (c) Review
 - (d) Management
5. _____ is a SCM concept that helps to control change without seriously impeding justifiable change.
 - (a) Baseline
 - (b) Version
 - (c) Configuration item
 - (d) Repository
6. Cohesion is a qualitative indication of the degree to which a module _____.
 - (a) can be written more compactly
 - (b) focuses on just one thing
 - (c) is able to complete its function in a timely manner
 - (d) is connected to other modules and the outside world.

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7. _____ coverage is the testing to test every statement in the code has been executed at least once.
- (a) Program (b) Path
(c) Branch (d) Statement
8. The main purpose of integration testing is to find
- (a) design errors (b) analysis errors
(c) procedure errors (d) interface errors
9. Changes made to the system to reduce the future system failure chances is called _____.
- (a) Preventive (b) Adaptive
(c) Corrective (d) Perfective
10. _____ is the act of determining a measure.
- (a) Testing (b) Measurement
(c) Complexity (d) Verification

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Mention the drawbacks of the RAD model.
- Or
- (b) What are the advantages of using prototype model than using waterfall model? Explain.

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12. (a) Write short notes on data dictionary.

Or

- (b) Explain briefly Functional Modeling.

13. (a) What is Data Flow Diagram? Explain its use in system design.

Or

- (b) Explain any one golden rule for user interface design.

14. (a) Define software testing. Explain various level of testing.

Or

- (b) Explain the regression testing process.

15. (a) What are the function based metrics? Explain.

Or

- (b) What are the types of CASE tools? Explain.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) What is prototyping? Explain the prototyping model.

Or

- (b) Describe the activities involved in system development life cycle.

17. (a) Describe the notations used for requirements specifications.

Or

- (b) What are the behavioural models? Explain.

18. (a) Briefly describe each of the four elements of the design model.

Or

- (b) What are the principles to be followed while designing user interface? Explain.

19. (a) Explain the block box testing strategy and its significance.

Or

- (b) Write short notes on Top down Integration Testing process.

20. (a) Describe the software measurement process with neat block diagram.

Or

- (b) What is software maintenance? Explain various methods.

