

(6 pages)

Reg. No. :

Code No. : 7197

Sub. Code : KCAM 25

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2017.

Second Semester

Computer Applications

SOFTWARE ENGINEERING

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which is a collection of programs written to service other programs?
(a) Application (b) System
(c) Scientific (d) Embedded
2. Software engineering is a _____ technology.
(a) Activity (b) Layered
(c) Quantifiable (d) Systematic

3. Which is a collection of activities, actions and tasks?

(a) Product (b) Problem
(c) Project (d) Process

4. Scenario based modelling represents the system from the _____ point of view.

(a) Developer's (b) User's
(c) Manager's (d) Tester's

5. In requirement analysis, the level of abstraction should be relatively _____

(a) Low (b) Medium
(c) Zero (d) High

6. Software is divided into separately named and an addressable component is called _____

(a) Abstraction
(b) Refinement
(c) Procedure
(d) Modules

Page 2

Code No. : 7197



7. Which refers to the set of tasks that ensure that software correctly implements a specific function?
- (a) Modulation (b) Abstraction
(c) Verification (d) Validation
8. Which testing is the re execution of some subnet of test.
- (a) Smoke (b) System
(c) Regression (d) Performance
9. A Deployment testing is also called as _____ testing.
- (a) Alpha (b) Configuration
(c) Beta (d) System
10. In COCOMO II, the NOP was calculated by _____
- (a) $(\text{object points}) + [(100 - \% \text{reuse}) / 100]$
(b) $(\text{object points}) - [(100 - \% \text{reuse}) / 100]$
(c) $(\text{object points}) * [(100 - \% \text{reuse}) * 100]$
(d) $(\text{object points}) * [(100 - \% \text{reuse}) / 100]$

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 the paradigm of software engineering.
Or
(b) Elaborate spiral model with diagram.
12. (a) Discuss requirement engineering process.
Or
(b) Elaborate the techniques of rapid prototyping.
13. (a) Draw and explain the architecture of software.
Or
(b) Discuss user interface design.
14. (a) Write short notes on unit testing.
Or
(b) Explain validation testing.
15. (a) Discuss the concept of scheduling.
Or
(b) How do you measure the software engineering?



PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain prototyping model with diagram.

Or

- (b) Discuss development process.

17. (a) Elaborate the types of feasibility studies.

Or

- (b) Discuss functional and non-functional requirement.

18. (a) Elucidate transform and transaction mapping.

Or

- (b) Elaborate SCIM process.

19. (a) Discuss the taxonomy of software testing.

Or

- (b) Elaborate system testing.

Page 5

Code No. : 7197

20. (a) Discuss the maintenance of software.

Or

- (b) Elaborate the taxonomy of CASE tools.

Page 6

Code No. : 7197

