

**MASTER OF COMPUTER APPLICATION
THIRD SEMESTER (SPECIAL REPEAT)
SOFTWARE ENGINEERING AND PROJECT MANAGEMENT
MCA-301**

**SET
A**

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

1. What is Software engineering?
 - a. Designing a software
 - b. Testing a software
 - c. Application of engineering principles to the design a software
 - d. None of these
2. The feasibility study is work with:
 - a. Organizational
 - b. Economical
 - c. Technical
 - d. All of the above
3. RAD stands:
 - a. Rapid Application Development
 - b. Rapid Application Document
 - c. Relative Application Development
 - d. None of the above
4. The following models are used to prefer by software companies:
 - a. Spiral
 - b. Iterative
 - c. RAD
 - d. Both b & c
5. The following activities of the generic process framework delivers a feedback report:
 - a. Deployment
 - b. Planning
 - c. Modeling
 - d. Construction
6. Which of the following factors is NOT typically considered during a feasibility study?
 - a. Technical feasibility
 - b. Legal feasibility
 - c. Operational feasibility
 - d. Design feasibility
7. Which of the following SDLC is not used anywhere?
 - a. Waterfall Model
 - b. Prototype Model
 - c. Spiral Model
 - d. Iterative Model
8. The elements of module operate on same data in:
 - a. Functional cohesion
 - b. Communication cohesion
 - c. Procedural cohesion
 - d. Temporal cohesion
9. A design is said to be a good design if the components are:
 - a. Strongly coupled
 - b. Weakly coupled
 - c. Strongly coupled & weakly cohesive
 - d. Strongly cohesive & weakly coupled
10. The project manager responsibility is:
 - a. Focus on Budget
 - b. Focus on small team
 - c. Track the process
 - d. Focus on quality

11. The DFD stands for:
 - a. Data Flows Definition
 - b. Data Flow Diagram
 - c. Data Functional Definition
 - d. All of these
12. Data Flow processes the sequences of steps is said to be:
 - a. Object model
 - b. System Model
 - c. Semantic data model
 - d. Data Flow model
13.represented by In UML diagrams, relationships between component parts of object.
 - a. Ordination
 - b. Aggregation
 - c. Segregation
 - d. Increment
14. Which of the following is not defined in a good software requirement specification document?
 - a. Functional requirement
 - b. Non-functional requirement
 - c. Goals of implementation
 - d. Algorithm for software implementation
15. Identify the incorrect testing type.
 - a. Beta testing
 - b. Unit testing
 - c. Collaborative testing
 - d. System testing
16. Unit testing is done by:
 - a. User
 - b. Tester
 - c. Customer
 - d. Developer
17. The SRS document is also known asspecification.
 - a. Black box
 - b. White box
 - c. Grey box
 - d. None
18. Software quality is measured by:
 - a. Quality control
 - b. Quality assurance
 - c. Quality of conformance
 - d. None of the above
19. Software maintenance includes:
 - a. Error corrections
 - b. Enhancement of capabilities
 - c. Removal of bugs
 - d. All of the above
20. COCOMO stands for:
 - a. Consumed Cost Model
 - b. Common Control Model
 - c. Constructive Cost Estimation Model
 - d. Composition Cost Model

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. a) What do you mean by Information System? Describe Data & Process. | 4 |
| b) Explain the different components of the Information system. | 6 |
| 2. a) Why we should follow Software Life Cycle Model? Explain. | 5 |
| b) Discuss about feasibility study. | 5 |
| 3. Explain the different phases of Waterfall Model in details. | 10 |
| 4. What do you mean by the terms cohesion and coupling in the context of software design? Enumerate the different type of cohesion that a model might exhibit. | 4+6=10 |
| 5. a) Write short notes on Object Oriented design. | 4 |
| b) Explain DFD,DD & UML in detail. | 6 |
| 6. What do you mean by software testing? Explain different types of testing. | 10 |
| 7. a) Briefly explain about software maintenance & its strategies. | 6 |
| b) What do you mean by Risk management in Software development system? | 4 |
| 8. How to improve the software quality by using different types of checklist and explain it in chart representation. | 10 |

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