Roll No. ..... Total Printed Pages - 8

F - 828

M.Sc. (IT) (THIRD SEMESTER) EXAMINATION, Dec. - Jan., 2021-22

(SOFTWARE ENGINEERING)

Paper Third

[Time : Three Hours] ***[Maximum Marks : 100]***

[Minimum Pass marks : 40]

Note : **Attempt all Sections as directed:**

Section-A

(Objective/Multiple Choice Questions)

(1 mark each)

Note : Attempt all questions.

1. Communication, planning, modeling, construction and deployment are the activities of the .....

   (A) Process framework.

   (B) System analysis

   (C) System design

   (D) All of the above

2. Software deployments refers-

   (A) To deliver the product to the customer.

   (B) To deliver the product to the developer

   (C) To deliver the product for testing team.

   (D) None of the above.

3. Amongst which of the following is/are the part of software process?

   (A) It is a series of predictable steps.

   (B) It is a road map which helps developer to create a timely, high quality result.

   (C) Both (A) & (B)

   (D) None of the above.

4. What does the study of an existing system refer to ?

   (A) Details of DFD

   (B) Feasibility Study

   (C) System Analysis

   (D) System Planning

5. Which of the following prototypes does not associated with prototyping model?

   (A) Domain Prototype

   (B) Vertical Prototype

   (C) Horizontal Prototype

   (D) Diagonal Prototype

6. Which of the following does not relate to evolutionary process model?
   (A) Incremental model
   (B) Concurrent development model
   (C) winwin spiral model
   (D) All of the above
7. Which of the following refers to internal software equality?
   (A) Scalability
   (B) Reusability
   (C) Reliability
   (D) Usability
8. Which is the worst type of coupling?
   (A) Control coupling
   (B) Data coupling
   (C) Content coupling
   (D) Stamp coupling
9. What is/are the characteristics of a well formed design class?
   (A) Primitiveness
   (B) High cohesion
   (C) Low coupling
   (D) All of the above.

10. _____ is an indication of the relative function strength of a module.
    (A) Cohesion
    (B) Coupling
    (C) Modularity
    (D) Cohesion and Coupling
11. The SRS document is also known as _____ specification.
    (A) Black - Box
    (B) White - Box
    (C) Grey - Box
    (D) None of the above
12. Relational schemas and other metadata about relations are stored in a structure called the _____.
    (A) Meta data
    (B) Log
    (C) Data Dictionary
    (D) Catalog
13. _____is the collection of memory structures and oracle background process that operates against an oracle database.
    (A) Database
    (B) Instance
    (C) Tablespace
    (D) Segment

14. Testing of software with actual data and in actual environment is called:

    (A) Alpha testing

    (B) Beta testing

    (C) Regression testing

    (D) None of the above

15. The testing of software against SRS is called:

    (A) Acceptance testing

    (B) Integration testing

    (C) Regression testing

    (D) System testing

16. Maintenance is classified into how many categories?

    (A) Two

    (B) Three

    (C) Four

    (D) Five

17. Which level of CMM is for process management?

    (A) Initial

    (B) Repeatable

    (C) Defined

    (D) Optimizing

18. Which of the following is not a business goal of re-engineering?

    (A) Cost reduction

    (B) Time reduction

    (C) Maintainability

    (D) None of the above

19. Risk management is one of the most important jobs for a

    (A) Client

    (B) Investor

    (C) Production team

    (D) Project manager

20. Which of the following strategies means that the impact of the risk will be reduced?

    (A) Avoidance strategies

    (B) Minimiztion strategies

    (C) Contingency plans

    (D) All of the above.

Section - B

(Very Short Answer Type Questions)

(2 Marks each)

Note : Attempt all questions :

1. What do you mean by process adaption?
2. Define software crisis.
3. What do you understand by Decision Table?
4. What is Refinement in software engineering?
5. What is software quality assurance?
6. Define Software Reliability.
7. What is white box testing?
8. What do you understand by debugging strategies.
9. Explain Risk management.
10. What do you understand by software maintenance?

Section - C

(Short Answer Type Questions)

(3 marks each)

Note : Attempt all questions.

1. What is software Engineering layered technology?
2. Explain prototype model in software engineering.
3. Explain abstraction and Partitioning.
4. Describe all phases of SRS.

5. Explain architecture of Case Tools.
6. Explain software maturity model.
7. What are the coding standared for a good programming?
8. What is the difference between verification and validation?
9. What do you mean by software re-engineering?
10. Explain Boehm model.

Section - D

(Long Answer Type Questions)

(6 Marks each)

Note : Attempt all questions.

1. Explain Spiral Model in detail.
2. Explain cohesion and coupling with their types.
3. Describe the terms software quality and metrices.
4. What is testing principle? Explain validation and integration testing?
5. What are the major planning activities for software development project?