

Seat	
No.	

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**Kamala College, Kolhapur**  
**(Autonomous)**  
**B.C.A. (Part-II) (Semester-IV)**  
**Examination March/April. - 2024**  
**Software Engineering**  
**Subject Code: CC 323**



**Day and Date: Friday, 19/04/2024**

**Total Marks: 80**

**Time: 08.00 a.m. to 11.00 a.m.**

**Instructions:**

1. Que.1 and Que. 8 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 7
2. Figures to the right indicate marks.

**Q 1) Multiple Choice Questions.**

**[12]**

- 1) Agile Software Development is based on which of the following Type ?
  - a. Iterative Development
  - b. Incremental Development
  - c. Both Incremental and Iterative Development
  - d. Linear Development
- 2) Quality Management is known as \_\_\_\_\_ ?
  - a. SQI
  - b. SQA
  - c. SQM
  - d. SQA and SQM
- 3) Which of the following document contains the user system requirements?
  - a. SRD
  - b. DDD
  - c. SDD
  - d. SRS
- 4) Which of the following is the first step of SDLC?
  - a. Coding
  - b. Design
  - c. Preliminary investigation and analysis
  - d. Testing
- 5) When is the 'risk analysis' In the spiral model performed??
  - a. In the first loop
  - b. Before using the spiral model
  - c. Every loop
  - d. The first and second loop

- 6) What is a "use case" primarily used for?
- Debugging software
  - Designing the user interface
  - Representing interactions between a user and a system
  - Estimating project cost
- 7) What does the term 'white box testing' refer to?
- Testing without viewing the software's code
  - Testing the software's user interface
  - Testing based on the software's internal logic and structure
  - Testing with external tools
- 8) What is the main purpose of software testing?
- To improve the features of the software
  - To find and correct errors in the software
  - To enhance the user interface
  - To boost the performance of developers
- 9) Who proposed the spiral model?
- Barry Boehm
  - Pressman
  - Royce
  - IBM
- 10) Which of the following is not a part of Software evolution?
- Re-engineering activities
  - Maintenance activities
  - Development activities
  - Negotiating with client
- 11) By whom is unit testing done?
- Users
  - Customers
  - Developers
  - None
- 12) Which of the following is NOT a characteristic of good software?
- Maintainability
  - Usability
  - Scalability
  - Complexity
- Q2) What is Entity Relationship in software engineering? Explain components of entity relationship diagram. Draw an ERD for College Management System. [16]
- Q3) a) What is software testing? List & Explain types of testing. [8]  
b) Explain in brief formal technical review. [8]
- Q4) a) Explain in brief requirement engineering process? [8]  
b) Explain in brief requirement elicitation techniques in software engineering. [8]



- Q5) a) What is SDLC ? Explain the phases of SDLC with neat diagram. [8]  
b) Explain in brief waterfall model in software engineering. [8]
- Q6) Explain in brief software requirement specification & validation also explain in brief types of requirements in software engineering. [16]
- Q7) a) Explain in brief system, characteristics of system. [8]  
b) Explain in brief Spiral model of software engineering. [8]
- Q 8) Write short notes on. (Any Four out of Six) [20]
- 1) Software Vs Program
  - 2) Usecase Diagram
  - 3) Requirement elicitation techniques modern method
  - 4) Activity Diagram
  - 5) Characteristics of good SRS
  - 6) Prototype Model

