

Seat  
No.

Set A

**B.C.A (Part -II) (Semester - IV) (CBCS) Examination**  
**Oct. /Nov. – 2023**

College Name : Kamala College, Kolhapur

Subject Name : Software Engineering

Subject Code : 83382

Total Marks: 70

Day and Date : Wednesday, 29/11/2023

Period: 3 hours

Time : 02.30 pm. To 05.30 pm.

Total pages: 2

**Instructions**

- 1) Figures to the right indicate full marks
- 2) Q.1 & Q.6 are compulsory and attempt any three from Q.2 to Q.5

Q. 1

20

A) Multiple Choice Question

[10]

- 1) Who is the father of software Engineering?
  - a) Margaret Hamilton
  - b) Watts S. Humphrey
  - c) Alan Turing
  - d) Boris Beizer
- 2) What is Software Engineering?
  - a) Designing A Software
  - b) Testing a software
  - c) Application of engineering principles to design a software
  - d) None of above
- 3) Which is/are the developer specific requirements?
  - a) Maintainability
  - b) Portability
  - c) Availability
  - d) Portability and availability
- 4) What does SDLC stands for? \_\_\_\_\_
  - a) System Design Life Cycle
  - b) Software Design Life Cycle
  - c) Software Development Life Cycle
  - d) System Development Life cycle
- 5) \_\_\_\_\_ is not a fundamental activity for software processes in software development.
  - a) Evolution
  - b) Design and implementation
  - c) Validation
  - d) Verification



- 6) The user system requirements are the parts of which document?  
 a) SDD  
 b) SRS  
 c) DDD  
 d) SRD
- 7) The primary tool used in structure designing is a  
 a) Program flowchart  
 b) Structure chart  
 c) Data Flow Diagram  
 d) Module
- 8) What are the various Testing Levels?  
 a) Unit Testing  
 b) System Testing  
 c) Integration Testing  
 d) All of the above mentioned
- 9) When to proceed to white box testing?  
 a) After SRS  
 b) After designing Phase  
 c) After Coding phase  
 d) After Installation phase
- 10) HIPO stands for \_\_\_\_\_  
 a) Hierarchical Input Process Output  
 b) Hierarchical Input Process  
 c) High Input Process Output  
 d) Hierarchical Input Program Output

B) Short Answer Question (Any 2 out of 3)

1. SDLC
2. Program Vs Software
3. Spiral Model

- Q. 2 What is System? Explain Characteristics & types of System. 10
- Q. 3 What is Requirement Engineering? List and explain the various elicitation techniques and types of requirement. 10
- Q. 4 What is Entity relationship in software engineering explain the components of entity relationship diagram with example? 10
- Q. 5 What is Software Testing? Explain the types of software testing. 10
- Q. 6 Write short notes. (Any four out of six) 20
- 1) Waterfall Model.
  - 2) Verification and Validation.
  - 3) SRS (Software Requirement Specification).
  - 4) DFD.
  - 5) HIPO chart.
  - 6) Software Quality Assurance (SQA).



[10]