

BCA II Sem IV  
(Repeater)



QP Code: 1089QP

Total No. of Pages: 2

Seat No.

## January - February (Winter) Examination - 2023

Subject Name: B.C.A. (CBCS)\_83382\_Software Engineering\_14.01.2023\_02.30 PM To 05.30 PM

Subject Code: 83382

Day and Date: Saturday, 14-01-2023

Time: 02:30 pm to 05:30 pm

Total  
Mark  
s: 70

### Instructions.:

1) Figures to the right indicate full marks

### Special Instruction.:

1) Que.1 and Que. 6 are compulsory and attempt any three Questions from Que.

No.2 to Que. No. 5.

Q.1. A) Select the correct alternative

[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 the above

2. Which document is created by system analyst after the requirements are collected from various stakeholders?

a) Feasibility study  
requirement validation

b) Software

c) Software requirement specification  
Gathering

d) Requirement

3. Attributes of good software is \_\_\_\_\_

a) Development  
& functionality

b) Maintainability

c) Functionality

d) Maintainability

4. What does SDLC stands for?

a) System Design Life Cycle  
Life Cycle

b) Software Design

c) Software Development Life Cycle  
Development Life cycle

d) System

5. The main activity of the design phase of the system life cycle is to?

a) Replace the old system with the new one  
test the new system

b) Develop and

c) Understand the current system  
alternatives to the current system

d) Propose

6. Which of the following tools are used in modeling the new system?

a) Decision Table  
Diagrams

b) Data Flow

c) Data dictionary

d) All of these

7. A person who writes a program for running the hardware of a computer is called?
- a) System designer  
b) Data processor  
c) Programmer  
d) System analyst
8. A feasibility study is?
- a) Considers a single solution statement of the problem  
b) Includes a  
c) Both (a) and (b)  
d) None of these
9. A graphic representation of an information system is called?
- a) Data flow diagram  
b) Pictogram  
c) Flowchart  
d) All of these
10. Structured design methodology is an approach to design that adheres to rules based on principles such as \_\_\_\_?
- a) Bottom-up design analysis  
b) Data flow  
c) Top-down refinement  
d) All of these

B) Write a short answer of the following (Any 2)

1. Define and explain the term System, Explain various types of systems
2. List and Explain Various Characteristics of system
3. What is Software Quality Assurance?

- Q.2. What is SDLC? Explain the phases of SDLC with neat diagram. [10]
- Q.3. What is entity relationship in software engineering? Explain the components of entity relationship diagram. Draw an ERD for Library Management System [10]
- Q.4. What is Requirement Engineering? List and explain various Requirement elicitation techniques as well as the types of requirements. [10]
- Q.5. What is Software Testing? List and explain types of testing. [10]
- Q.6. Write a short note on (Any 4) [20]
1. Program.
  2. Software Requirement Specification document.
  3. DFD.
  4. SQA activities.
  5. Validation testing.
  6. Black-Box Testing.

