

Victoria University of Bangladesh  
Department of Computer Science & Engineering

Name: Ashit Kumar (Abir)

Student ID: 2221220011

Mid Assessment

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Course Title: Software Engineering.

(1)

### Answer to the question no: 1 (a)

1. (a) Ans: Software Engineering: Software Engineering is a detailed study of engineering to the design, development and maintenance of software. Software engineering was introduced to address the issues of low-quality software projects.

### Answer to the question no: 1 (b)

1. (b) (Ans): SDLC Activities: SDLC or the Software Development Life cycle is a process that produces software with the highest quality and lowest cost in the shortest time possible. SDLC provides a well structured flow of phases that help an organization to quickly produce high-quality software which is well-tested and ready for production use.

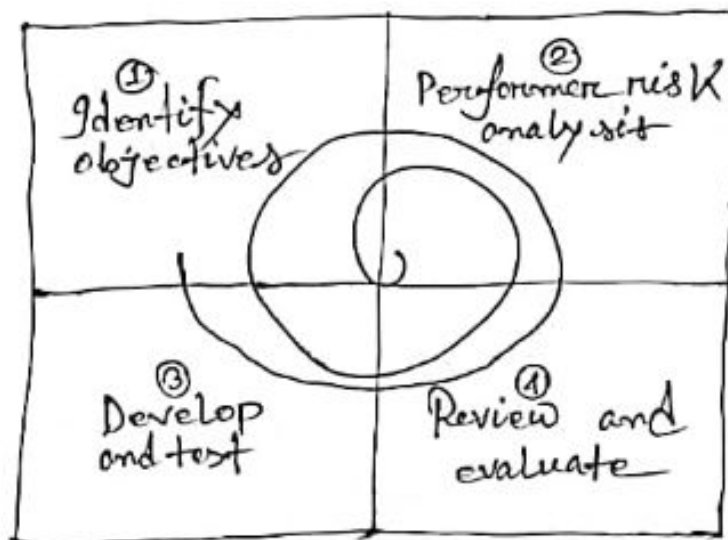
# Spiral model: The Spiral model is a systems development lifecycle (SDLC) method used for risk management that combines the iterative development process model with elements of

p.t.o.

(2)

the Water-fall model. The Spiral model is used by software engineers and is favored for large, expensive and complicated projects.

### Spiral Model



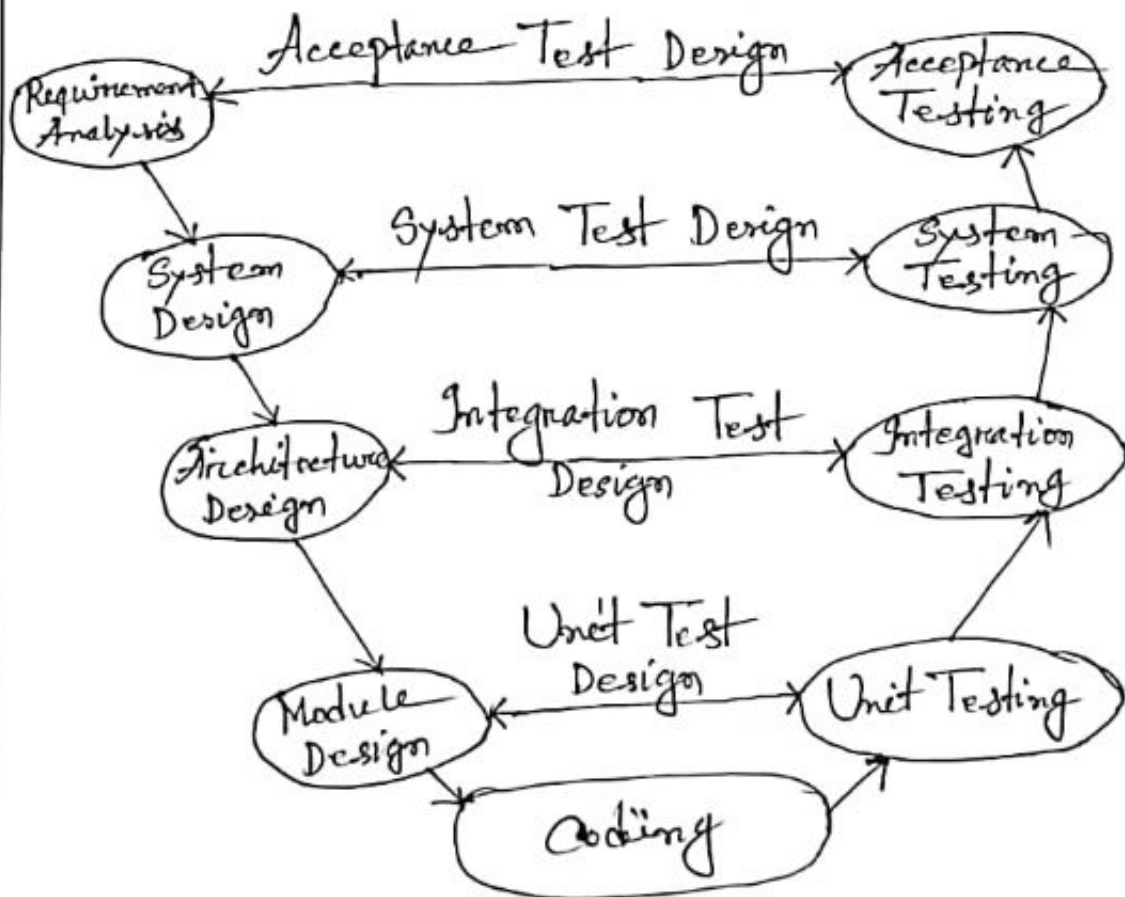
Spiral model .

(3)

Answer to the question no: 1 (c)

1. (c) Ans: Describe the V-model: The V-model is a type of SDLC model where process executes in a sequential manner in V-shape. It is also known as verification and validation model. It is based on the association of a testing phase for each corresponding development stage. Development of each step directly associated with the testing phase.

V-model



(1)

Answer to the question no: 1 (d)

1. (d) Ans: Graphical User Interface Elements

Graphical user interface elements are those elements used by graphical user interfaces (GUIs) to offer a consistent visual language to represent information stored in computers. These make it easier for people with few computer skills to work with and use computer software.

Answer to the question no: 2 (a)

2. (a) Ans: Define project manager: A project manager is a professional who organizes, plans, and executes projects while working within restraints like budgets and schedules. Project managers lead entire teams, define projects goals, communicate with stakeholders, and see a project through to its closure.

Answer to the question no: 2(b)

2. (b). Ans: Describe role of project managers

A project manager is a professional in charge of ensuring their team complete all projects on time and within budget. They prevent scope creep while also managing individual tasks for their respective teams with keen attention to detail to avoid any unpleasant surprises.

# These responsibilities include:

# Plan and Develop the project idea. Every project starts as an idea.

# Create and Lead Your Dream Team.....

# Monitor project progress and set deadlines

# Solve Issues that Arise

# Manage the money

# Ensure stakeholder satisfaction

# Evaluate project performance

(6)

Answer to the question no: 2 (c)

2. (c) Ans: Objects of software Design: The software should be reusable, i.e., it should have the potential to be a small part of a more extensive system. The software should be easily testable. The software should be reliable, i.e., it should work error-free. It should be possible to use the software in different contexts. (Portability).