

## **1. What is SDLC?**

A. SDLC is stand for software development life cycle.

Types of SDLC...

(1) Requirement gathering

(2) Analysis

(3) Design

(4) Implementation

(5) Testing

(6) Maintenance.

## **2. What is software testing?**

A. Software testing is process used to identify correctness, completeness and quality of developed computer software and web sites.

## **3. What is agile methodology?**

A. Agile model is combination of iterative and incremental process models. agile model is suitable for fixed and changing requirement.

## **4. What is SRS?**

A. SRS is stand for software requirements specification.

## **5.What is oops?**

A. Object oriented programming is a concepts of object , class , abstaction , encapsulation , inheritance and polymorphism.

## **6. Write basic concepts of oops**

A. There are six types are here....

- 1) Object
- 2) Class
- 3) Abstraction
- 4) Encapsulation
- 5) Inheritance
- 6) Polymorphism

## **7. What is object?**

A. object is any entity which has own state and behaviour is called object.

## **8. What is class?**

A. class is a collection of objects.

## 9. What is encapsulation?

A. encapsulation is wrapping of data or binding a data.

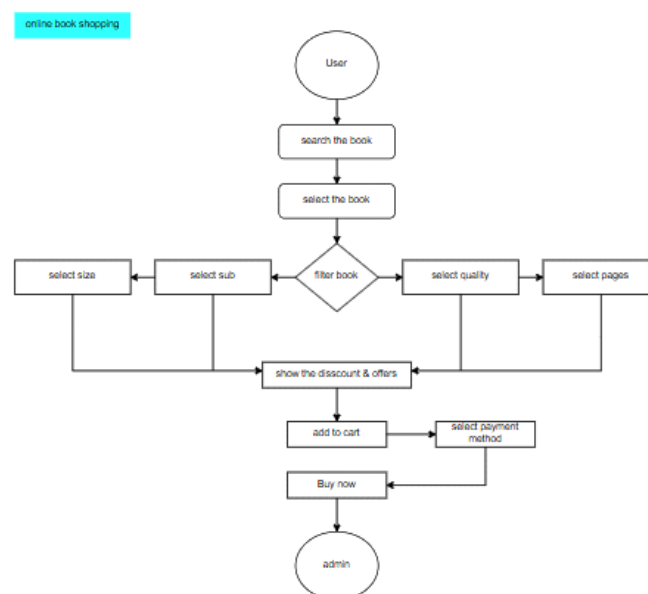
## 10. What is inheritance?

A. when one objects acquire all the properties and behaviour of parent class is called inheritance.

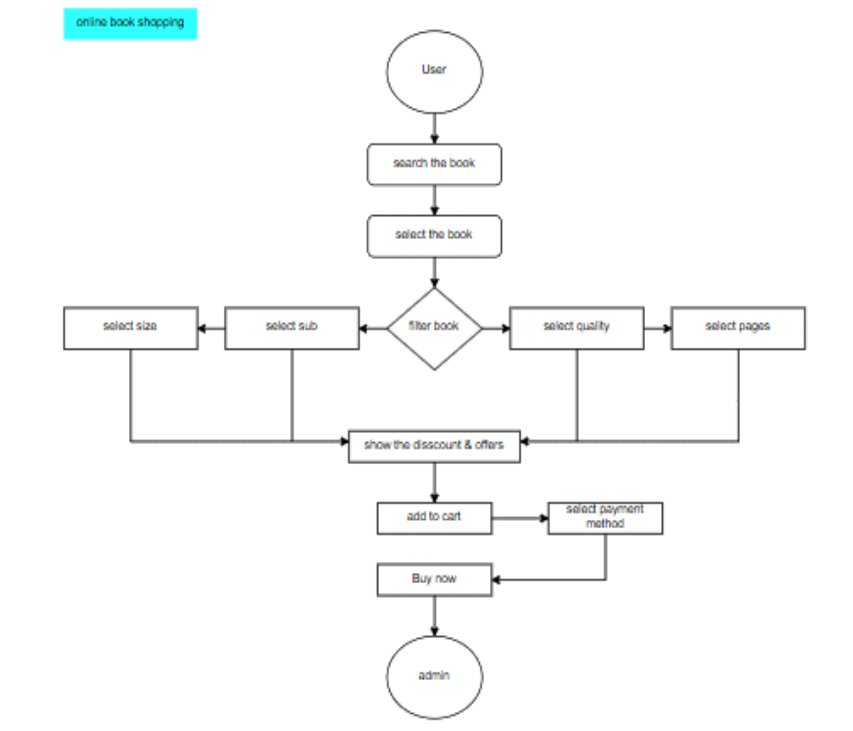
## 11. What is polymorphism?

A. polymorphism is allows different objects to respond to the same message in different ways.

## 12. Draw usecase on online book shopping.



### 13. Draw usecase on online bill payment system.



### 14. Write SDLC phases with basic introduction

**A.** Requirement gathering -customer needs

Analysis -model data anlysis

Design -model specification and designed

Implementation -data implement and model solution

Testing -software testing and solution

Maintenance -defect repair and requirement solution

### 15. Explain phases of the waterfall model

**A.** There are the phases of the waterfall model

- Requirments - this includes client's need and requirments.
- Analysis - this includes detailed requirements of document.
- Design - this create the technical plan as blueprint.
- Implementation - the design is developed and tested individually during this.
- Testing - this includes testing for faults and perfomance issues.
- Maintenance - this phase is for ongoing support and bug fixes.

## **16. Write phases of spiral model**

**A.** there are the phases of the spiral model

- Planning - determination of objective,alternatives and constaraints.
- Risk analysis - analysis of alternatives and identification of risks.
- Engineering - development of the next level product.
- Customer evolution - assessment of the results of engineering.

## **17. Write agile manifesto principls**

**A.** - Customer satisfaction and delivery

- Avoid of requirement features
- Working software deliver
- Collaboration the business developers
- Successful communication
- Enable face to face interaction
- Agile processes to support a consistent development.

## **18. Explain working methodology of agile model and also write pros and cons.**

**A.** Requirements analysis -> Design -> Development -> Quality assurance -> Deployment.

- Agile model pros and cons:

### ❖ Pros:

- Increase flexibility
- Faster time to market
- Higher satisfaction
- Improved collaboration
- Better risk management
- Best product quality

### ❖ Cons:

- Reduce predictability
- Lack of comprehensive documentation
- Potential scope creep
- Not for every project

## 19. Draw usecase on online shopping product using COD.

A.



**20. Draw usecase on online shopping product using payment gateway.**

**A.**

