

MCQS

CS621 midterm preparation file

ZB

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the name of God , Most  
Gracious, Most merciful



CS621

**MCQS**

1. Which phase in SDLC involves gathering requirements from stakeholders?

- A) Testing
- B) Design
- C) Implementation
- D) Requirement Analysis

Answer: D

2. What does UML stand for?

- A) Unified Modeling Language
- B) Universal Management Language
- C) Unified Management Level
- D) Universal Modeling Logic

Answer: A

3. Which of the following is NOT a software process model?

- A) Waterfall Model
- B) Spiral Model
- C) Gantt Chart
- D) Agile Model

Answer: C

4. What is the main goal of software engineering?

- A) Developing software quickly
- B) Producing error-free software
- C) Delivering high-quality software efficiently
- D) Writing complex code

Answer: C

5. What is the purpose of a feasibility study in software development?

- A) To finalize the design
- B) To check if the project is achievable
- C) To write code
- D) To test the software

Answer: B

6. Which of the following is a functional requirement?

- A) Performance speed
- B) Data input validation
- C) User interface look and feel
- D) Security

Answer: B

7. Which model emphasizes risk analysis?

- A) Agile
- B) Waterfall
- C) Spiral
- D) Incremental

Answer: C

8. What is a prototype in software engineering?

- A) Final software product
- B) Mock-up of software functionality
- C) Set of user manuals
- D) Backup software

Answer: B

9. Which diagram represents the dynamic behavior of a system?

- A) Class Diagram
- B) Sequence Diagram
- C) Component Diagram
- D) Deployment Diagram

Answer: B

10. Which of the following is NOT an agile methodology?

- A) Scrum
- B) XP (Extreme Programming)
- C) Kanban
- D) Spiral

Answer: D

11. What is COCOMO used for?

- A) Testing software
- B) Estimating project cost and effort
- C) Writing user manuals
- D) Debugging code

Answer: B

12. In which SDLC phase is the software tested?

- A) Requirement Analysis
- B) Maintenance
- C) Testing
- D) Design

Answer: C

13. Which role is responsible for managing project timelines in a software project?

- A) Developer
- B) Project Manager
- C) Tester
- D) Product Owner

Answer: B

14. Which type of testing checks individual units of code?

- A) Integration Testing
- B) System Testing
- C) Unit Testing
- D) Regression Testing

Answer: C

15. Which of the following is an example of a CASE tool?

- A) Visual Studio
- B) Microsoft Word
- C) Tableau
- D) Photoshop

Answer: A

16. What does SRS stand for?

- A) System Reliability Specification
- B) Software Requirements Specification
- C) System Readability Standard
- D) Software Risk Solution

Answer: B

17. Which term refers to fixing bugs in software after delivery?

- A) Development
- B) Maintenance
- C) Testing
- D) Deployment

Answer: B

18. What is the purpose of a Gantt Chart?

- A) To design software modules
- B) To manage project schedules
- C) To analyze risks
- D) To debug software

Answer: B

19. What is a key advantage of the Agile model?

- A) Fixed timelines
- B) Flexibility to adapt to changes
- C) Sequential development
- D) Focus on documentation

Answer: B

20. What is meant by "reusability" in software engineering?

- A) Writing new code for each project
- B) Using existing code in new applications
- C) Testing software repeatedly
- D) Debugging existing software

Answer: B

21. Which SDLC model is best suited for small, well-understood projects?

- A) Waterfall Model
- B) Spiral Model
- C) Agile Model
- D) Prototyping Model

Answer: A

22. What is the main focus of Extreme Programming (XP)?

- A) Writing complex code
- B) Speedy software delivery
- C) Detailed documentation
- D) User interface design

Answer: B

23. Which of the following is NOT part of software quality attributes?

- A) Usability
- B) Portability
- C) Scalability
- D) Licensing

Answer: D

24. What is the first step in Risk Management?

- A) Risk Mitigation
- B) Risk Identification
- C) Risk Monitoring
- D) Risk Avoidance

Answer: B

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25. Which of the following is a non-functional requirement?

- A) Data validation
- B) Report generation
- C) System response time
- D) Business rules

Answer: C

26. Which document describes "what" the software will do, not "how"?

- A) Design Document
- B) Test Plan
- C) Software Requirements Specification (SRS)
- D) Source Code

Answer: C

27. What is a milestone in project management?

- A) A task assigned to a developer
- B) A point indicating project progress
- C) A type of software defect
- D) A debugging tool

Answer: B

28. Which of the following is a primary focus of software testing?

- A) Writing code
- B) Ensuring software quality
- C) Gathering requirements
- D) Designing the UI

Answer: B

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29. What is modularity in software design?

- A) Writing code in one large block
- B) Breaking the system into smaller parts
- C) Debugging software
- D) Increasing software size

Answer: B

30. What is the main output of the design phase in SDLC?

- A) Source Code
- B) Design Specifications
- C) Test Cases
- D) User Manuals

Answer: B

31. Which of the following is an iterative process model?

- A) Waterfall
- B) Agile
- C) Linear Sequential
- D) None of the above

Answer: B

32. What is meant by scalability in software?

- A) Ability to function on different platforms
- B) Ability to handle growth in user demand
- C) Ability to fix bugs quickly
- D) Ability to reduce system size

Answer: B

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**33. What is the primary focus of configuration management in software engineering?**

- A) Managing team members**
- B) Controlling changes to software artifacts**
- C) Debugging software**
- D) Developing user interfaces**

**Answer: B**

**34. Which of the following is NOT a software metric?**

- A) Lines of Code (LOC)**
- B) Cyclomatic Complexity**
- C) Function Points**
- D) Unit Testing**

**Answer: D**

**35. Which process ensures the software meets customer expectations?**

- A) Validation**
- B) Verification**
- C) Debugging**
- D) Implementation**

**Answer: A**

**36. What does "maintainability" mean in software quality attributes?**

- A) Easy to maintain and update**
- B) Easy to install**
- C) Easy to use**
- D) Easy to distribute**

**Answer: A**

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37. Which model uses "sprints" to deliver software in increments?

- A) Waterfall
- B) Scrum
- C) Spiral
- D) V-Model

Answer: B

38. Which type of diagram models the static structure of a system?

- A) Class Diagram
- B) Use Case Diagram
- C) Sequence Diagram
- D) Activity Diagram

Answer: A

39. What is the main purpose of black-box testing?

- A) Testing without knowledge of internal structure
- B) Testing individual units of code
- C) Testing internal code structure
- D) Testing hardware components

Answer: A

40. Which tool is commonly used for version control?

- A) JIRA
- B) Git
- C) Eclipse
- D) Visual Studio

Answer: B

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41. What is the first step in software project planning?

- A) Cost Estimation
- B) Scheduling
- C) Requirement Analysis
- D) Resource Allocation

Answer: C

42. What is the purpose of regression testing?

- A) To ensure new changes don't break existing functionality
- B) To validate user requirements
- C) To test system performance
- D) To fix bugs

Answer: A

43. What does a context diagram represent?

- A) Internal system details
- B) Interaction between the system and external entities
- C) Software test cases
- D) Database structure

Answer: B

44. Which of the following is NOT a software development activity?

- A) Coding
- B) Testing
- C) Designing
- D) Sales forecasting

Answer: D

45. What is "coupling" in software engineering?

- A) Degree of interdependence between modules
- B) Degree of cohesion within a module
- C) Number of users using the software
- D) Complexity of the code

Answer: A

46. Which of the following is an example of functional testing?

- A) Load Testing
- B) Stress Testing
- C) Usability Testing
- D) Boundary Value Analysis

Answer: D

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**Passing criteria of this course**

Letter Grade	Grade Points	Equivalent Percentage
A+	4.00	90-100
A	4.00	85-89
A-	3.66 - 3.99	80-84
B+	3.33 - 3.65	75-79
B	3.00 - 3.32	71-74
B-	2.66 - 2.99	68-70
C	2.00 - 2.65	61-67
D	1.00 - 1.99	50-60
F	0.00	00-49

**Passing Criteria for a Course:**

The passing criteria is defined in such a way that it ensures the student shall be consistent in his studies throughout the semester.

Therefore, for passing a course/subject, student shall fulfill the following:

- a) Secure minimum **20%** score in Formative Assessments/Mid terms
- b) Secure minimum **20%** score in Final Term Examinations.
- c) Secure at least **40%** marks in aggregate while fulfilling the above requirements

**Course Selection and Credit Hours**

**Q: How do I select courses when the course selection is open?**

**A: Follow these steps:**

- 1. Check the credit hours allowed by your university (e.g., 21, 18, or 15 credit hours).**
- 2. Each subject typically has 3 credit hours.**
- 3. Divide the total allowed credit hours by 3 to determine how many subjects you can select.**

**Examples:**

**21 credit hours = 7 subjects**

**15 credit hours = 5 subjects**

**Remember, the university may allow different credit hours for each student, so check your specific allowance.**

**By following these steps, you can make informed decisions during course selection and manage your credit hours effectively.**

**ZB**

**Advice**

**Hmaesha relax ho ke parha kryn panic mat hua kryn apky parents ky bohat khawab hoty hn wo pura krny ki puri koshish kea kryn kbi b ksi pe depend na kea kryn apko bs ak insan success kr saqta ha or wo insan ap khud hn apky elawa koi nahe ap bs koshish kryn Allah pak pe strong yakeen rakha kryn or mehnat krke sb Allah ke hawaly kr dea kryn everything is possible be brave be strong stay blessed**

**Hum insan hamesha moat se darty or bhagty hn or moat se bachny ki koshish krty hn jabke moat ny ana hi ana ha hum**

moat se nahe bach saqty humy jahanam se bachny ki koshish  
krni chaheay hum jahanam se bach saqty hn  
Insan ko 3 chezo se dar lagta ha Moat Risk/Dolat Ezat Shohrat  
Fame

## Moat

**Humy pta hona chaheay Moat tab ani ha jab Allah  
chahy us se pehly puri dunya bi ak taraf ho ke apko  
marna chahy to apka kuch nahe beggar saqti**

## Risk/Dolat

**Risk Dolat sb Allah pak ke hath m ha puri dunya ak  
taraf b ho jay na apsy apka risk cheen saqti ha na de  
saqti ha Ye sirf ALLAH pak ky hath m ha**

## Izat Zilat shohrat Fame

**Izat Zilat Sirf Allah de saqty hn puri dunya mel ke b  
apko zra brabr b damage nahe kr saqti Agr ALLAH**

**Apko izat dena chahay to puri dunya ak taraf ho ke  
b apko 1% b nuksan nahe pohancha saqti**

**Phr Dar ks bat ka ??????????????????**

**Be brave be strong Just put your trust To ALLAH  
Hamesha Confident or himat se raho kbi ksi k samne  
mat jhuko puri dunya mel k b apka kuch b nahe  
beggar saqti**

**ZB**  
**MY REQUEST FROM ALL OF YOU**

**ZB Request from All of you My family**

Mjy ap sbki help or support ki zarort ha or wo ye k hum sb Mel kr Allah ka Quran ki Urdu translation logo tak pohanchy or Quran ko samjna asaaan kryn dosro k leay sb tak Allah ka Quran pohanchy it's my campaign hum log 70+ age k ho jaty hn phr b hmy namaz tak ki translation nahe pta hoti k hum Allah pak se

Kya Dua kr rhy hn so hum youngster's ko Mel kr puri takat or energy ke sath Allah ka Quran spread krna ha

Hum puri Koshish kr rhy hn k hum sb Mel k Quran ki translation or most important topics ko maximum share kry with translation hmara maksad Quran ko spread krna ha be a part of us

m apni pocket se ye sb kr rha ho Allah ka Quran spread krny k leay apne or mene sbny Marna ha ak din to q na Allah k leay Kuch kryn apni energies apni power ko bajay negative use krny k Allah k leay invest kryn khud ko be a part of us

Agr m 23 ki age m apny sare sources use kr rha ho pocket se heavy amounts give away kr rha ho Quran spread krny k leay to ap just share to kr saqty hn itna e kr dyn

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**ZB**

**Agr ap mujsy contact na kr sky too b ap jo b hn jaha bi hn waha Allah ka quran pheelay zada se zada with urdu translation jitni himat ha utna share kryn**

..... **MY Family** .....

**Just Relax and focus! Exams are not difficult. Put in your  
100% effort and trust in Allah.**

..... **AL-Quran** .....

**"And indeed, with hardship comes ease." (Quran 94:5)  
Remember, I'm here to support you! Stay brave and strong!"**

**May Allah bless you**