



جامعة القاهرة  
كلية الحاسبات و المعلومات  
Quiz #1 Spring2022

قسم: Software Engineering	تاريخ:
اسم المقرر: ٣٥٩SC	المدة: min
د. حسين محمد شرف	إجمالي الدرجات:

The estimated time for each part is indicated by E.T.

Question ( 1 ) MCQ Write the letter of the most correct answer

[E.T. =30][30 marks]

Part A: Lec1 Product Quality :

1) Determining how easily bugs can be found and fixed considered as .....

A) Flexibility	B) Testability
<b>C) Maintainability</b>	D) Efficiency

2) Determining how well the software does what the customer wants considers :

<b>A) Correctness</b>	B) Reliability
C) Efficiency	D) Usability

3) The way the product should be changed is considered as .....

<b>A) Revision requirements</b>	B) Transition requirements
C) Operation requirements	D) None of the above

4) How to measure the primary SQFs?

A) Correctness	B) Maintainability
C) Integrity	<b>D) All of the above</b>

5) How the product will be used is what kind of product requirement ?

A) Revision requirements	B) Transition requirements
<b>C) Operation requirements</b>	D) Security requirements

6) Determining how well the software does what it is supposed to do considers :

A) Correctness	<b>B) Reliability</b>
C) Efficiency	D) Usability

Part B: Lec2 Measuring system complexity :

7) What does complexity mean in the context of programming?:

A) How much time/memory is required to run the program	<b>B) How complicated the program code is</b>
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C) How many bugs the program has	D) None of mention
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8) Which approach is used to measure complexity by counting the number of lines in a piece of code? :

A) LOC metric	B) Black box
C) McCabe's method	D) White box

9) How does McCabe's cyclomatic-complexity metric measure the complexity of a method? :

A) By counting the number of lines in a piece of code	B) By counting the number of independent paths in the method
C) By counting the number of decision points in the method	D) None of the above

10) Which of the following adds 1 to the cyclomatic complexity of a method according to McCabe's metric?

A) Each decision point in a method	B) Each catch block in a try statement
C) Each catch block in a try statement	D) All of mention

11) Loop testing technique considered as

A) Black box testing	B) Unique testing technique
C) White box testing	D) Basic path testing technique

12) Which statement is true regarding the Lines-of-code metric (LOC)?

A) The fewer lines of code, the fewer bugs a program has	B) The more lines of code, the more errors a program has
C) The LOC metric is not a reliable measure of complexity	D) None of the above



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Part C: Lec3 Securing architecture :

13) All the mentioned are architecture view except.....

A) Presentation view	B) Logical view
C) Process view	D) Deployment view

14) The architecture view that addresses concurrent aspects of the system at run-time, all system processes, start-up and shut-down

A) The functional view	B) The deployment view
C) The process view	D) The logical view

15) Patterns for solving specific code scenarios

A) Design Patterns	B) Architecture Patterns
C) Model view controller	D) None of the above

16) All the mentioned are Design Patterns except.....

A) Structural Patterns	B) Architecture Patterns
C) Creational Patterns	D) Behavioral Patterns

17) Design patterns divided mainly into

A) Creational Pattern	B) Structural Pattern
C) Behavioral Pattern	D) All of the above

18) Which pattern helps to structure the architecture of a system into groups of basic services/functionalities, each at a particular level of abstraction.

A) Factory Pattern	B) Creational Pattern
C) Layer Pattern	D) Structural Pattern

Part D: Lec4 Securing architecture:

19) A contract that defines all interfaces and the pre- and postconditions:

A) Service	B) Provider
C) Consumer	D) Registry



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- 20) Software entity that implements the service, it accepts and executes requests from consumers:

A) Service	B) Provider
C) Consumer	D) Registry

- 21) Software entity which calls a service provider to request a service:

A) Service	B) Provider
C) Consumer	D) Registry

- 22) Software entity, which allows the lookup of services, service providers and their location:

A) Service	B) Provider
C) Consumer	D) Registry

- 23) What does @app.route('/about') do in Flask?

A) Defines a new class called about	B) Imports the about module
C) Defines a new function called about	D) Defines a new route for the /about URL

- 24) “query = conn.execute("select \* from employees")”, what does this code do ?

A) Connects to DataBase	B) Creates an API
C) Executes a query	D) Fetches first line from the query