COMP23412 Practice Paper Find more resources at: github.com/jTanG0506

1.	Which component is typically, the most reusable?
	○ Model
	○ View
	○ Controller
	○ All of the above
2.	The code which manages data persistence would be in which component?
	○ Model
	O View
	○ Controller
	○ All of the above
3.	Which of the following is the best description for the Controller in MVC?
	○ It represents the application data domain
	O It separates the data from the business logic from the display
	○ Respond to user interactions with the view
	O Represents the user interface which the end user interacts with
4.	Which of the following is an advantage of MVC?
	O Decreased complexity - new developers have a pattern to follow
	O Easier to debug due to the event-driven nature of the UI code
	\bigcirc Similar derivations exist, like MVVM, so you learn them by learning MVC
	○ Faster development process
5.	When users are involved in complex tasks, which of following demands can be significant?
	○ Short-term memory
	○ Shortcuts
	Objects that appears on the screen
	○ All of the above
6.	Which of the following option is not considered by the interface design?
	○ The design of interfaces between software components
	○ The design of interfaces between the software and end users
	The design of interface between two computers
	○ All of the above
7.	Which of the following is a golden rule for interface design?
	O Place the user in control
	Reduce the user's memory load
	Make the interface consistent
	○ All of the above

8.	Which of the following is not a design principle that allows the user to maintain control?
	O Provide for flexible interaction
	○ Allow user interaction to be interrupt-able and undo-able
	○ Show technical internals from the casual user
	O Design for direct interaction with objects that appear on the screen
9.	The process in which users prove their identity is known as:
	○ Authentication
	 Authorisation
	○ Identification
	○ Recognition
10.	A website which allows users to enter any text, and then stores it and later displays it to other users, is potentially vulnerable to what kind of attack?
	○ Two-factor authentication
	○ Cross-site request forgery
	○ Cross-site scripting
	○ Man-in-the-middle
11.	Which type of attack is where the end user to forced to execute unwanted actions on a web application which they are currently authenticated?
	○ Two-factor authentication
	○ Cross-site request forgery
	○ Cross-site scripting
	○ Man-in-the-middle
12.	The process of using two independent factors of identify a user is known as
	○ Two-factor authentication
	○ Cross-site request forgery
	○ Cross-site scripting
	○ Man-in-the-middle
13.	Which process happens first?
	○ Authentication
	 Authorisation
	○ They can be done at the same time
	○ The two processes are not connected, so it doesn't matter
14.	What are the advantages of using a one time password?
	○ It is easily generated on demand
	○ It cannot be shared
	○ It is unique for every access
	O It uses polynomial based algorithms which means that it is hard to deduce

15.	Which of the following is not a best practice for unit tests?
	O Clean up - tests should tear down before the next test it run
	O Repeatable - tests should obtain the same result every time
	○ Self-validating - tests should be fully automated
	○ None of the above
16.	In which integration test method, do we test all components at once?
	○ Fully-inclusive testing
	 Combinatorial testing
	O Big bang testing
	O Polynomial testing
17.	In terms of incremental approach, which of the following is false?
	O Two different methods of incremental approach include bottom-up and top-down
	 Testing is done by joining two or more modules that are logically related, and repeated unti- all modules are joined and tested together.
	O Fault localisation is more difficult than the method in which we test all components at once
	○ None of the above
18.	What is an object that has a fully working implementation but takes some shortcut which makes then not suitable for production known as?
	○ A test double
	○ A dummy
	○ A mock
	○ A fake
19.	Which of the following is not a major objective of acceptance testing?
	O Confirming that the system meets the agreed upon criteria
	○ Identify and resolve discrepancies, if there is any
	O Determine the readiness of the system for cut-over to live operations
	○ Making sure that the critical module is bug free
20.	The user must assign the criteria the software must meet to be deemed acceptance, which stage is this included in?
	○ Software Requirements Specification
	O Project Plan
	○ Use Cases
	○ None of the above
21.	Which tests are done to ensure that existing features are not affected by new changes?
	○ Recursive testing
	O Unit testing
	○ White-box testing
	○ Regression testing

22.	What are the types of integration testing?
	○ Big Bang Testing
	O Bottom Up Testing
	O Top Down Testing
	○ All of the above
23.	Which of these is not a benefit of TDD?
	O Documents your code better than documentation
	O Decreases the chance of regressions
	 Encourages design for testability
	○ Makes legacy code much easier to maintain
24.	Which of the following protocol is used by RESTful web services as a medium of communication between client and server?
	○ SSH
	\bigcirc FTP
	\bigcirc SSL
	○ None of the above
25.	In a REST architecture, which of the following is true?
	○ The REST server provides access to resources and presents the resources
	○ The REST client provides access to the resources
	○ The REST client accesses and presents the resources
	○ None of the above
26.	Which of the following is true about URI in RESTful web services?
	○ Each resource in REST architecture is identified by its URI
	○ The purpose of the URI is so that the REST client can perform DNS lookup
	\bigcirc The URI's purpose is to give the 400 HTTP status code for a Bad Request
	○ None of the above
27.	Which of the following is a common API security hack?
	○ Cross-site Request Forgery
	O Denial of Service
	○ SQL Injection
	○ All of the above
28.	Which of the following is false about the REST architecture style?
	REST is naturally stateless
	REST uses HTTP and basic CRUD operations
	○ The REST server can only return JSON or XML
	○ All of the above

29.	Which of the following are idempotent?	
	\bigcirc GET	
	○ PUT	
	○ DELETE	
	○ All of the above	
30.	Which feature can be used to state that resources need to re-fetched?	
	○ HATEOAS	
	○ Idempotent actions, such as GET	
	○ HTTP Cache-Control headers	
	○ The URI	
31.	Which of the following is not a best practice when designing RESTful web services?	
	URI should be descriptive and easily understood	
	O Pass the secure tag in the header if you are to pass sensitive data through the Ul	RL
	 Every input on the server should be validated 	
	O For any session, the user should be authenticated	
32.	Which of the following statements are false?	
	○ GET is a read only operation which fetches some information	
	O POST can only be used to creating new resources	
	O POST is idempotent but PUT is not-idempotent	
	O DELETE is used to delete any resource on the server	