Started on	Monday, 15 September 2025, 12:22 PM
State	Finished
Completed on	Monday, 15 September 2025, 12:36 PM
Time taken	13 mins 47 secs
Marks	15.00/20.00
Grade	75.00 out of 100.00

Complete

Mark 1.00 out of 1.00

What does the SQL command ROLLBACK do?

- a. Reverts the database to the last committed state
- b. Saves changes permanently
- c. Starts a new transaction
- d. Commits the current transaction

The correct answer is: Reverts the database to the last committed state

Question 2 Complete Mark 1.00 out of 1.00 Description: Mark 1.00 a. Set an environment variable b. Set a local variable c. List all variables d. Remove a variable

The correct answer is: Set an environment variable

Question 3 Complete Mark 1.00 out of 1.00 b. Search for a pattern in a single file

a. Search recursively through directories for a pattern
b. Search for a pattern in a single file
c. Exclude directories during search
d. Search only in hidden files

The correct answer is: Search recursively through directories for a pattern

Question 4 In SDLC, which phase is responsible for defining system requirements? Complete Mark 1.00 out of Requirement Analysis 1.00 Design c. Maintenance d. Implementation The correct answer is: Requirement Analysis Question 5 How do you retrieve the second highest salary from an Employee table? Complete Mark 0.00 out of a. SELECT MAX(salary) FROM Employee WHERE salary NOT IN (SELECT MAX(salary) FROM 1.00 Employee); b. SELECT salary FROM Employee ORDER BY salary DESC LIMIT 1 OFFSET 1; c. All of the above (depending on SQL version)

The correct answer is: All of the above (depending on SQL version)

od. SELECT TOP 1 salary FROM Employee ORDER BY salary DESC OFFSET 1 ROW;

Complete

Mark 1.00 out of 1.00

What is the function of the tee command in Linux?

- a. Monitors network traffic
- b. Filters output based on patterns
- oc. Sends output to both terminal and file
- d. Overwrites the file

The correct answer is: Sends output to both terminal and file

Question 7

Complete

Mark 1.00 out of 1.00

How do you capture the output of a command into a variable in shell scripting?

- a. var=\$(command)
- b. var<<command>>
- c. var: command
- od. var = command

The correct answer is: var=\$(command)

Complete

Mark 1.00 out of 1.00

What does the final keyword do when applied to a class in Java?

- a. Allows the class to be subclassed
- b. Prevents variables from being assigned a value
- oc. Prevents the class from being subclassed
- d. Allows variables to be modified

The correct answer is: Prevents the class from being subclassed

Question 9

Complete

Mark 0.00 out of 1.00

In shell scripting, what is the correct syntax to define a function?

- a. myFunc() { ... }
- b. def myFunc() { ... }
- c. Both A and B
- d. function myFunc { ... }

The correct answer is: Both A and B

Question 10 Complete	What is the output of comparing two string objects created using new String("abc") using ==?
Mark 1.00 out of 1.00	a. Compilation error
	○ b. Runtime error
	○ c. true
	od. false
	The correct answer is: false
Question 11 Complete	The sum of three consecutive even numbers is 48. What is the smallest number?
Mark 1.00 out of 1.00	a. 14
	○ b. 16
	○ c. 18
	O d. 12

The correct answer is: 14

Complete

Mark 0.00 out of 1.00

A number is increased by 25% and then decreased by 20%. What is the overall percentage change?

- a. 10% decrease
- b. 0% change
- c. 5% decrease
- d. 5% increase

The correct answer is: 0% change

Question 13

Complete

Mark 1.00 out of 1.00

A and B can complete a job in 20 and 30 days respectively. How many days will they take if they work together?

- a. 12 days
- b. 15 days
- oc. 10 days
- d. 18 days

The correct answer is: 12 days

Question 14 Complete Mark 1.00 out of 1.00

What does the read -p option do in shell scripting?

- a. Reads input from a file
- b. Reads input silently without showing on screen
- oc. Reads input and prints a prompt message
- od. Reads multiple variables

The correct answer is: Reads input and prints a prompt message

Question 15

Complete

Mark 0.00 out of 1.00

What is the function of set -e in a shell script?

- a. Exit script when any command fails
- b. Enable debugging output
- c. Ignore errors and continue execution
- d. Disable execution

The correct answer is: Exit script when any command fails

Complete

Mark 1.00 out of 1.00

A train covers a distance of 240 km in 4 hours. If its speed is increased by 20%, what is the new time taken?

- a. 3 hours 20 minutes
- b. 3 hours 30 minutes
- c. 2 hours 50 minutes
- d. 3 hours

The correct answer is: 3 hours 20 minutes

Question 17

Complete

Mark 1.00 out of 1.00

What is the main difference between an interface and an abstract class in Java?

- a. Interface methods can have a body; abstract class methods cannot
- b. A class can implement multiple interfaces but extend only one abstract class
- c. Abstract classes cannot contain fields
- od. Interface methods must always be private

The correct answer is: A class can implement multiple interfaces but extend only one abstract class

Question 18 Complete Mark 1.00 out of 1.00

What is the purpose of a foreign key in SQL?

- a. To speed up SELECT queries
- b. To enforce a unique constraint
- c. To enforce a default value in a column
- od. To maintain referential integrity between tables

The correct answer is: To maintain referential integrity between tables

Question 19

Complete

Mark 0.00 out of 1.00

What does the awk '{print \$1}' file.txt command do?

- a. Prints the entire first line of the file
- b. Deletes the first field from each line
- oc. Prints the first word (field) of each line
- od. Prints the first character of each line

The correct answer is: Prints the first word (field) of each line

Complete

Mark 1.00 out of 1.00

The ratio of ages of A and B is 3:5. After 6 years, their ratio becomes 4:6. What are their current ages?

- a. 12 and 20
- b. 15 and 25
- oc. 18 and 30
- d. 24 and 40

The correct answer is: 18 and 30