

Name: \_\_\_\_\_

Score: \_\_\_\_\_ / \_\_\_\_\_

## htd-assesment2

### Part 1

1

what are the oops concepts and explain each concept.

2

what is the contract between equals() and hashCode() method?

3

why String is immutable?

4

what is the difference between ArrayList and Vector?

5

How HashMap internally works?

6

what is the difference between HashMap and Hashtable?

7

Write a program to print given String is palindrome or not?

Example:

Input: MADAM

output: Given input MADAM is palindrome.

8

what is the difference between TreeSet and TreeMap?

9

What is the difference between throw vs Throws?

10

Write a program to print Fibonacci program.

11

Scripts should first be made executable by using which command?

- A. `chmod -rwx`
- B. `chmod -w`
- C. `chmod +x`
- D. `chmod -x`

12

command to enable debug mode in shell scripting?

- A. `set -x`
- B. `set debug`
- C. `enable debug`
- D. `set +x`

13

How to nullify stdout and stderr in shell scripting

- A. `>/dev/null 2>&1`
- B. `>/dev/null`
- C. `stderr &stdout >null`
- D. `'1&2' >/dev/null`

14

select the right sed syntax to replace string **atom1** with **atom** in a file called **startAtom.sh**?

- A.  
`sed s/atom1/atom/ startAtom.sh`
- B.  
`sed -i s/atom1/atom/ startAtom.sh`
- C.  
`sed -w s/atom1/atom/ startAtom.sh`
- D.  
`sed atom1 atom startAtom.sh`

- 15 utility to schedule hourly or daily or weekly jobs in Unix ?
- A. runc
  - B. init
  - C. sched
  - D. cron
- 16 explain difference between if and nested if condition?
- 17 what are different loops in shell scripting and explain while vs until?
- 18 explain different operators in shell scripting?
- 19 explain functions in shell scripting and provide the syntax ?
- 20 what is return code? how to check return code in command line and in script?
- 21 Explain how incidents, problems, and known errors are different from one another.
- 22 What's the difference between a Change Request and a Service Request?
- 23 What is the RACI model?
- 24 What is SLA and What are the three levels of SLA?
- 25 Mention the goals of problem management in ITIL
- 26 What is a primary key, foreign key?
- 27 What is the difference between DROP and TRUNCATE statements?

28

List the different types of relationships in SQL?

29

What are Aggregate functions in sql?

30

Write the SQL query to get the third maximum salary of an employee from a table named employees.

31

What will be the output of the following query?

```
select id, col_1, col_2
from table_1 a
inner join table_2 b
using(id)
inner join table_3 c
using(id_2)
```

A.

This query will perform the inner join of table\_1 and table\_3 only.

B.

This query will show an error message.

C.

This query will perform the inner join of table\_2 and table\_3 on 'id\_2' and then perform inner join on 'id' with table\_1.

D.

This query will perform the inner join of table\_1 and table\_2 on 'id' and then perform inner join on 'id\_2' with table\_3.

32

Which of the following is the standard format the MySQL displays DATE values

A. YYYY-MM-DD

B. YYYY-MM-DD

C. YY-MM-DD

D. MM-DD-YYYY

33

What will be the output of the following query? `select reverse(substring('Sachin Tendulkar', -7, 3));`

- A. udn
- B. eT
- C. ndu
- D. Te

34

If you do not specify either of the 'asc' or 'desc' commands after the 'orderby' command, what will the output of this query be?

- A. None of the above
- B. By default, it will arrange the data in ascending order.
- C. By default, it will arrange the data in descending order.
- D. This will throw an error.

35

Which of these queries will return the same output? (Note: More than one option may be correct.)

- A. `select * from employees where EmpID in (2,3,4, 5);`
- B. `select * from employees where EmpID between 2 and 5;`
- C. `select * from employees where EmpID >= 2 and EmpID <= 5;`
- D. `select * from employees where EmpID >2 and EmpID <5;`