KYT

When Tata Consultancy Services established?

a. 1978

b. 1968

c. 1988

d. 1958

Drawback of Distributed computing is

a. Man Power cost increased

b. Cost of computing increased

c. Complexity Reduced

d. None of the options

How many hours of video are uploaded to YouTube every minute

a. 10

b. 50

c. 80

d. 100

Computer Algorithms which determines the category of observation based on previously seen examples is called as

a. Linear Regression

b. Classification

c. Maturity Learning

d. Numerical regression

Which application takes Highest Maintenance cost

a. Native Application

b. Web Application

c. Composite Application

d. Hybrid Application

BizSkill

What are the stages in the IBC approach?

a. Introduction, Body, Cohesion

b. Introduction, Body, Content

c. Introduction, Body, Conclusion

d. None of the options

The purpose of writing is expressed by which type of question?

a. how

b. when

c. why

d. who

The CIBI Bank requested TCS to upgrade their systems worldwide and to digitize 80% of their workflow. TCS not only completed the given work on time but also provided IT training sessions for the bank employees to get accustomed to the upgrades. What is this service termed as ?

a. Keeping commitments

b. Robotic service

c. Value-added service

d. Systematic service

Select the options that may apply while responding to an angry customer's e-mail.

a. Acknowledge their frustration and restate it in your own words.

b. Align with the customer by letting them know you've heard and understood the issue.

c. Assure the customer that you will resolve the issue at the earliest.

d. All of the options

He had a Masters in Business Administration (MBA). Here MBA is :

a. Acronym

b. Abbreviation

c. Elision

Use these MCQs as a reference purpose.
All the Best

d. All of the options

Stephen would be traveling home to attend his brother's wedding. What information should he exclude while drafting a mail prior to his leave ?

a. The reason behind taking leave.

b. The period of his absence specified by dates.

c. The details of the wedding as well as Stephen's means of travelling back.

d. An update on the current status of his work and details about the hand over of the task to a fellow associate.

What are the elements of a Project Status Report?

a. Current status, Plan for next phase and Areas of concern.

b. Current status and Areas of concern.

c. Current status, Areas of concern, Suggestions and Plan for next week.

d. Current status, Areas of concern and Suggestions.

Rose chooses not to consult her colleagues while fixing a problem, as she is sure that they are too busy. Ide ntify the mind trap.

a. Defending prior choices

b. Selecting supporting information

c. Trap of assumptions

d. Trap of initial ideas

Group decision is an important element in which of the following work cultures?

a. US, UK and Middle East.

b. US, UK and Australia.

c. India, Japan and Australia.

d. India, Japan and Middle East.

What factors should you consider before preparing a help document on the newly introduced 'search' functi onality in ABC online application ?

a. Interest level of the users.

b. Gender of the users.

Use these MCQs as a reference purpose.
All the Best

c. Technical knowledge of the users.

d. Experience of the users.

RiO

List 3 aspects that will be at stake, if a major impact on business has occurred due to an outage

a. Sales Revenue , Brand reputation and Integrity in business

b. Brand reputation , Employee Utilization

c. Integrity in business and Sales Revenue

d. Employee Utilization,Brand Reputation and Sales Reveneue

Amazon had suffered a major outage of its Simple Storage Service, also known as S3, crippling significant portions of the web for several hours. Amazon said the S3 team was working on an issue that was slowing down its billing system. Here's what happened, according to Amazon, at 9:37 a.m. Pacific, starting the outage: "an authorized S3 team member using an established playbook executed a command which was intended to remove a small number of servers for one of the S3 subsystems that is used by the S3 billing process. Unfortunately, one of the inputs to the command was entered incorrectly and a larger set of servers was removed than intended." This has occurred due to

a. Proper knowledge transfer was missing which lead the team in distress. Lacked clarity and knowledg e regarding the incident

b. Communication and escalation management as incident occurred due to wrong information being pas sed to the team member

c. Access management, as authorized team member inappropriately made use of his access without proper validation

d. None of the options

Design Algorithm

Actions NOT to be taken during flood of alerts is

a. Relating the incidents for quick closure.

b. Following the Hierarchical escalation.

c. Disabling the alerts.

Advantages of SOLID principles are

1. Helps design systems that are robust
2. Helps design systems that are flexible
3. Helps design systems that exhibit ease of maintenance

4. Helps design system that do not cost much to maintain

a. 1 and 2

b. 2 and 3

c. 1 , 3 and 4

d. All of the options

Developers should follow the design principles to achieve which of the following qualities

a. Extensible and Simplicity

b. Readability and Simplicity

c. Extensible , Maintainability and Readability

d. Maintainability

Unix

The command used to find the count of only words in a file?

a. wc -w <filename>

b. wc –words <filename>

c. wc <Filename>

d. None of the options

Which command is used to change permission levels of a file or directory?

a. passwd

b. unset

c. return

d. chmod

What will be the output of below awk script? awk 'BEGIN{s=0 while (s<55) {print s;++s}}'

a. Prints the numbers from 0 to 55.

b. Prints the numbers from 0 to 5d.

c. Command will throw a syntax error

Use these MCQs as a reference purpose.
All the Best

d. It will go to infinite loop.

Given an input file as below. red,20

blue,22
green,45
yellow,2
orange,70

What will be the output of the below shell script and where will it be saved, when it is executed by passing above file as input.

```
#!/bin/bash

if [ $# -ne 1 ] then

echo "Pass the input file" else

if [ -f $1 ] && [ -e $1 ] then

awk 'BEGIN{FS=",";s=0}{s=s+$2}END{print s}' $1>outsum cut -d, -f1 $1>>outsum

else

echo "file doesn't exists" fi

fi
```

a. Code won't run due to syntax error.

b. Only first filter's output will be saved into outsum file

c. Sum of second column of input file and first column of input file will be obtained using the two filter s in the shell. Both outputs will be saved in file named outsum.

d. Only second filter's output will be saved into outsum file

Input file filea.txt contains

 hi all

hello everyone

good morning

good afternoon

Which of the command(s) will print the first line of the file?

a. head -1 filea.txt

b. awk 'NR==1' filea.txt

c. sed -n '1p' filea.txt

d. echo $1 filea.txt

Java UI

What is the usage of <span> in html?

a. It is often used as a container for other HTML elements to style them with CSS

b. It is used to group inline-elements in a document

c. It is used to highlight parts of your text.

What is the correct syntax to set border colors?

a. <h1 style="border-line: 2px solid DodgerBlue;">Hello World</h1>

b. <h1 style="border: DodgerBlue;">Hello World</h1>

c. <h1 style="border: 2px solid DodgerBlue;">Hello World</h1>

d. None of the options

What is the correct syntax to apply css for the below code?

<h2 class="city">London</h2>

<p>London is the capital of England.</p>

a. .city {

background-color:
tomato; color: white;

padding: 10px;

}

b. #city {

background-color:
tomato; color: white;

Use these MCQs as a reference purpose.
All the Best

padding: 10px;

}

c. city {

background-color: tomato; color: white;

padding: 10px;

}

What is the usage of <svg> tag in html?

a. It is used to adds audio controls, like play, pause, and volume

b. It is used to draw graphics, on the fly, via scripting

c. It is used for drawing paths, boxes and graphic images etc.

How do you add a background color for Xplore <h1> elements?

a. Xplore.h1 {background-color:#FFFFFF}

b. ha.Xplore {background-color:#FFFFFF}

c. h1 {bg-color:#FFFFFF}

d. h1 {background-color:#FFFFFF}

Which of the following is not a valid style for the paragraph?

p {

color: red;

font-family: courier;   font-size: 160%;

border-style: dotted dashed solid double; margin-right: 150px;

float: bottom;

}

a. Font-Size

Use these MCQs as a reference purpose.
All the Best

b. Border-Style

c. float

d. Font-family

Which one is a valid style;

a. p {

//Styling paragraph.
color: red;

text-align: center;

}

b. p {

–   Styling
paragraph.   color:
red;

text-align: center;

c. p {

/*Styling   paragraph.*/
color: red;

text-align: center;

}

d. p {

<!--Styling   paragraph.
→ color: red;

text-align: center;

}

Which among the following is not CSS background properties;

a. background-repeat

b. background-attachment

c. background-position

d. background-render

JavaScript programs are executed by the Script Engine.

a. TRUE

b. FALSE

What will be the output of the below code;

```
<html>

<body>

<p id="result"></p>

<script>

var        x        =        myFunction(NaN,        3);
document.getElementById("result").innerHTML =  x;

function  myFunction(a,  b)
{ return a * b;

</script>

</body>

</html>
```

a. 0

b. 3

c. NaN

d. Script Error

Java

We cannot use WHERE clause with TRUNCATE. True or False?

a. False

b. True

Consider the below table Category

ID   Name   Price

=============
= 1   W   35

2   LP   1200.99

3   POLO 1000.49

4   LEVI   900
5   HRX   (null)

Which is the output of below query

SELECT   AVG(Price)   FROM

Category;

a.

AVG(PRICE)

========
=== 78d.12

b. Cannot retrieve the output due to null values in table

c.

AVG(PRICE)

========
===
627.296

d.

AVG(PRICE)

========
=== 88d.28

Which operator gives the result if the condition(s) is not satisfied?

a. IN

b. NOT

c. OR

d. AND

Consider the below table ,CATEGORY

```
------------    --------------------    -------------------------------
Name  Null        Type

ID      NOT'            NULL
NUMBER(38) NAME    NOT
NULL          VARCHAR2(20)
PRICE         NOT         NULL
NUMBER(5,2)
```

What is the output of below query?

INSERT INTO CATEGORY VALUES (2, 'POLO', 2500.99);

a. The row gets inserted successfully

b. Query gives an SQL Error

c. Insert syntax error

d. None of the options

Which is not a system defined exception in PLSQL?

a. INVALID_INPUT

b. CURSOR_ALREADY_OPEN

c. NO_DATA_FOUND

d. INVALID_CURSOR

What is the meaning of the below fetch statement?

FETCH c1 INTO ename, empno, sal;

EXIT WHEN (c1%ROWCOUNT > 5) OR (c1%NOTFOUND);

a. fetch statement ends only when no records returned by the cursor

b.   fetch statement ends either when the number of rows returned by the cursor is greater than 5 or no records returned by the cursor

c. Syntax error

d. None of the options

Use these MCQs as a reference purpose.
All the Best

To get the server output result and display it into the screen, you need to write

a. set serveroutput on

b. set output on

c. set dbmsoutput on

d. set dbms output on

What are different conditional IF statements in PLSQL

a.   IF-THEN-END IF

IF-THEN-ELSE-END

IF

IF-THEN-ELSIF-END IF

b.   IF-THEN-END IF

IF-THEN-ELSE-END

IF

IF-THEN-ELSEIF-END IF

c.   IF-THEN-END IF

IF-THEN-ELSE-END

IF-THEN-ELSIF-END IF

d.   IF-THEN-END IF

IF-THEN-ELSE-END

IF-THEN-ELSEIF-END IF

_____is also known as static variable

a. Class variables

b. Local variables

c. Instance variables

Use these MCQs as a reference purpose.
All the Best

d. All of the options

Which of the following variable declaration will not compile in a java program

a. int a_1

b. int 1_a

c. int a

d. int A1

What would be the output of the following

program? class CharRange

{

public static void main(String[] args)

{

char   ch=127;

ch++;

System.out.println(ch+" = " +(int)ch);

}

}

a. ? = 128

b. GarbageCharacter = -128

c. Compiler Error

d. None of the options

```
class string_class {

    public static void main(String args[])

    {

    String    obj    =    "I    LIKE    JAVA";

    System.out.println(obj.length());

    }

    }
```

What will be the output?

a. 9

b. 10

c. 11

d. 12

Predict the output for the following

```
Import   java.util.Arrays;

public class Test {

public  static  void  main(String[]  args)  {

String s[] = { "java", "hibernate", "spring"

}; Arrays.sort(s);

for  (String  k  :  s)  {

System.out.print(k  +  "

");

}}}
```

a. hibernate java spring

b. java hibernate spring

c. spring java hibernate

d. spring hibernate java

Which of the options are true regarding primary key and foreign key?

a. Primary key cannot be null on the other hand foreign key can be null.

b. Primary key is always unique while foreign key can be duplicated

c. There can be only one primary key in the table and only one foreign key in the table.

d. There can be only one primary key in the table on the other hand we can have more than one foreign key in the table.

In how many ways can a standalone procedure be called in PLSQL.

a. Using the EXECUTE keyword

b. Calling the procedure name from a PL/SQL block

c. From a SELECT statement

d. It will be automatically executed

Python

What is the output of below

code? TCS = (1, 4, 9)

print(type(TCS))

a. <type 'tuple'>

b. <type 'list'>

c. Array

d. <type 'dict'>

Which of the following data structures can be used with the "in" operator to check if an item is in the data structure?

a. List

b. Set

c. Dictionary

d. All the options.

What is the output from the above snippet?

a. 4

b. 7

c. 5

d. 8

Which of the following commands can be used to delete a column age from a table wityh name test1?

a. alter table test1 drop column age;

b. alter table test1 drop age;

c. drop table test1;

d. delete from test1 age;

State whether the following statement is true or false .An outer join requires each record in a table to have a matching record with the joined table?

a. TRUE

b. FALSE

Which of the following set of operators can be used to enable a multi value comparison of values with a single column?

a. CHECK

b. IN

c. LIKE

d. IS NULL

What is the significance of using a number in an order by clause?

a. Number used in an order by clause signifies the position of a column in the select list

b. Number Used in an order by clause signifies the position of a column in the where clause

c. Number used in an Order by clause signifies the position of a column in a table

d. Number cannot be used in a order by clause

Consider the following table structure.

SQL>desc TRANSACTION;

```
------------------------  ----------------  ----------------------------
Name            Null?      Type

TNSID            NOT  NULL  NUMBER
BANKNAME
                VARCHAR2(50)
CUSTNAME        VARCHAR2(20)
```

UPDATE TRANSACTION SET BANKNAME='ABC BANK' where TNSID BETWEEN 100 TO 200

What is the output of the above query

a. Query will update the BANKNAME to 'ABC BANK' if TNSID ranges between 100 to 200

b. Query will update the BANKNAME to 'ABC BANK' if TNSID ranges between 101 to199

c. The query is syntactically wrong

d. Query will update the BANKNAME to 'ABC BANK' for all the rows in the table

Consider the following employee table

```
EmpId   Empname        Branch      NoofInnovations

================================
121          ABC              CHN     2
122          XYZ              CHN             6
123          WRE              KOC     14
```

Which query is used to get the name of the branch with highest NoofInnovations?

a.   SELECT   branch   FROM   employee   WHERE   NoOfInnovations=(SELECT MAX(NoOfInnovations) F ROM employee);

b. SELECT branch FROM employee WHERE NoOfInnovations=MAX(NoOfInnovations);

c. SELECT branch, MAX(NoofInnovations) FROM EMPLOYEE GROUP BY BRANCH;

d. All of the options

TRUNCATE statement removes the complete data and its structure.

a. TRUE

b. FALSE

Which of the following are valid constraints in MySQL?

a. UNIQUE, NOT NULL and DEFAULT

b. UNIQUE, NOT NULL and DISTINCT

c. DISTINCT and DEFAULT

d. DEFAULT, NOT NULL and DISTINCT

Consider a database products

Choose the query to select the products database

a. USE products;

b. USE Product;

c. Select PRODUCT;

d. SELECT products;

Select the correct statements for OOP in Python

1. The attributes of an object can be initialized using the __ init_____method
2. self keyword is used to represent the current instance of a class
3. self keyword is used to declare a class in Python
4. Python does not support OOP

a. 1 and 3

b. 1 and 2

c. 1 and 4

d. 2 and 3

Which query returns all the employees who earn the minimum salary from the Employees table

a. Select * from employees where sal=min(sal);

b. Select * from employees where sal =(select sal from employees);

c. Select * from employees where sal =(select min(sal) from employees);

d. Select * from employees where sal =(select min(sal) from employees group by empno);

Miscellaneous

The study of computer algorithms that improve automatically through experience

a. Artificial Intelligence

b. Neural Networks

c. Machine Learning

d. Robotics

When Tata Consultancy Services established?

a. 1978

b. 1968

c. 1988

d. 1971

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Prime difference between Public and Private Cloud is

a. Hardware used

b. Deployment Location

c. Software used

d. All of the options

Mobile application can interact with GPS and Camera of the device

a. TRUE

b. FALSE

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build bette r workplace relationships. Select the best option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward through chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

What is true about Agile principles?

A. Leadership over management
B. Management over leadership
C. Adaptive over prescriptive
D. Prescriptive over adaptive
E. Customer collaboration over contract negotiation
F. Contract negotiation over customer collaboration

a. B,C,E

b. A,D,F

c. A,C,E

d. B,D,F

When declining help, what should you be wary of, more than the actual words ?

a. The tone and facial expression.

b. The words are the most important aspect. You need not consider anything else.

c. We should never decline help in the first place.

d. Ignoring is the best way to decline help.

What all details should be provided in the signature of an e-mail? Choose the best options.

a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
a.Present accurate facts and figures.

b.Present facts and not personal views. c.Present stereotypical information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

Being digital gives us easy access to all kinds of information about our organization. How is data security ensured?

a. Respect confidentiality of information. Prevent disclosure of information related to colleagues or competitors.

b. Give paramount importance to the individual who has ctreated the content.

c. Ensures free, easy access to employee information.

d. None of the options.

Stephen would be traveling home to attend his brother's wedding. What information should he exclude while drafting a mail prior to his leave ?

a. The reason behind taking leave.

b. The period of his absence specified by dates.

c. The details of the wedding as well as Stephen's means of travelling back.

d. An update on the current status of his work and details about the hand over of the task to a fellow associate.

You have joined a project and you are in the training phase now. The project requires that you know the basics of Ruby on Rails. You complete an e-learning course on the same and now you are taking the assessment. During the assessment, a senior member of the team approaches you and asks if you can join a conference call instead of hi

m. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your predicament. You can inform him that you would join the call after th e assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come back in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason is genuine when you talk to him while looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organization you can say 'no' as much as you want.

How can e-mails be used to convey negative information ?

a. Disclose the information in the introduction of the mail.

b. Drop an email to the associate regarding a meeting. Deliver the information during the face to face discussion.

c. Mention the positive aspects first before sharing the negative information via e-mail.

d. No negative information should be sent through an e-mail.

What is the sequence of the transition management phases

a. KT to Secondary Support to Primary Support

b. Primary Support to Secondary Support to KT

c. Secondary Support to primary support to KT

d. None of the options

After creating a Knowledge Article (KA) a. Check and re-certify the KA at regular frequency

b. Ensure exceptions are clearly visible

c. Ensure you have used the standard template

d. All the options

Duplication of code is the root cause of most of the maintenance problems

a. TRUE

b. FALSE

Which of the following sorting algorithms in its typical implementation gives best performance when applied on an array which is sorted or almost sorted (maximum 1 or t wo elements are misplaced).

a. Insertion Sort

b. Merge Sort

c. Quick Sort

d. Bubble Sort

We use dynamic programming approach when

a. The solution has optimal substructure

b. The given problem can be reduced to the 3-SAT problem

c. It's faster than Greedy

d. We need an optimal solution

Which symbol will be used with grep command to match the pattern pat at the beginning of a line?

a. ^pat

b. pat^

c. $pat

d. pat$

What will be the output of below command? sort file1|uniq -u

a. Command has syntax error.

b. Finds the unique lines in the file and sort it.

c. Sort the file named file1 and displays the duplicate lines in the file

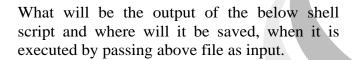d. Sort the file named file1 and displays the distinct lines in the file

Which of the following commands will give the length of a longest line in file

a. wc -l <"filename">

b. wc -L

c. wc -c1

Given an input file as below.
red,20

blue,
22
green
,45
yello
w,2
orang
e,70

What will be the output of the below shell script and where will it be saved, when it is executed by passing above file as input.

#!/bin/bash

if [$# -ne 1

] then

echo "Pass the input

file" else

if [-f $1] && [-e

$1] then

awk

'BEGIN{FS=",";s=0}{s=s+$2}END{p

rint s}' $1>outsum cut -d, -f1

$1>>outsum

else

echo "file doesn't

exists" fi

fi

a. Code won't run due to syntax error.

b. Only awk filter's output will be saved into outsum file

c. Sum of second column of input file and first column of input file will be obtained using the two filters in the shell. Both outputs will be saved in file named outsum.

d. Only cut filter's output will be saved into outsum file

Which command is used to compress a file in unix?

a. zip

b. gzip

c. compress

d. comp

what is the appearence of the <ins> tag? a. It will display in bold.

b. It will display in italics.

c. It will display in underlined.

d. It will display in unformatted.

Which of the following is a correct syntax to display ordered list with roman numbers?

a.

   1. Coffee

   2. Tea

   3. Milk

b. Default its showing with roman numbers

c.

   1. Coffee

   2. Tea

   3. Milk

d.

   I. Coffee

   II. Tea

   III. Milk

A link can be an image or any other HTML element.

a. TRUE

b. FALSE

`<img url="sky.jpg" width="100" height="100" opacity="0.25">`

What will be the output of the above code?

a. sky.jpg will display with height=100, width=100

b. sky.jpg will display with mentioned dimension and blurred becuase of low opacity.

c. sky.jpg will display with mentioned dimension in watermark mode.

d. None of the options

Which of the following is not an inline element in html?

a. <a>

b.

c. <img>

d. <hr>

<html>

<head>

<sty le>
p {

border: 1px solid black;
outline: #7845ef solid 10px;

}

.para {

border: 1px solid red;
outline: #7845ef solid 10px;

}

</style>

</head>

<body>

<p>Hello Java</p>

<p class="para">Hello HTML</p>

</body>

</html>

What will be the output of the above code?

a. It will display Hello Java in black color and Hello HTML in red color.

b. It will display Hello Java in black back-ground color and Hello HTML in red back-ground color with default text color.

c. It will display Hello Java as well as Hello HTML in black border color.

d. It will display Hello Java in black border color and Hello HTML in red border color.

Which of the following is incorrect?

a. h1 {

color: blue;

}

b. h1 {

color: darkblue;

}

c. h1 {

color: #000ff;

}

d. h1 {

color: rgb(0,0,255);

}

Which of the following Statement is wrong for accessing the value of the text box?

```
<html>

<body>

<span id="frm">

<input type="text" name="user" id="user">

</span>
```

```
<button onclick="myFunction()">Try it</button>


<p id="xyz"></p>


<script>

function myFunction() {

 var a = document.getElementById("user").value;

 var b = document.getElementsByName(
 "user").value; var c =
 document.getElementById("frm
 ").innerHTML; var d =
 document.getElementsByName(
 "user"); alert(d);

 document.getElementById("xyz").innerHTML       =
 a;//Statement1
 document.getElementById("xyz").innerHTML       =
 b;//Statement2
 document.getElementById("xyz").innerHTML       =
 c;//Statement3
 document.getElementById("xyz").innerHTML       =
 d.value;//Statement4

}

</script>


</body>

</html>
```

a. Statement1

b. Statement2

c. Statement3

d. Statement4

An array can be declared in Javascript as;

a. var rating = ["Avg", "Medium", "High"];

b. var rating = {"Avg", "Medium", "High"};

c. var rating = <"Avg", "Medium", "High">;

d. None of options

```
<html>

<script>

function        displayTime()        {
document.getElementById("abc").inner
HTML = Date();

}

</script>

<body>

<div id="abc" style="display:none"></div>

<button onclick="displayTime()">What is the time?</button>

</body>

</html>
```

What is the output of the above code?

a. Upon clicking the button it will show the current time above the button.

b. Upon clicking the button it will show the current time below the button.

c. Upon clicking the button it will show the current time with timezone above the button.

d. None of the options

Given below table with columns specified as below
EMPLOYEE(EmployeeID,Employeename,yrsofexperien
ce,gender,DOB,location).

Which query will display the gender and average years of experience according to gender?

a. SELECT gender,average(yrs_of_experience) FROM employee group BY gender;

b. SELECT gender,AVG(yrs_of_experience) FROM employee group BY AVG(yrs_of_experience);

c. SELECT gender,sum(yrs_of_experience) FROM employee group BY gender;

d. SELECT gender,AVG(yrs_of_experience) FROM employee group BY gender;

How to delete the foreign key constraint from the products table

CREATE TABLE supplier

(supplier_id   numeric(10)

PRIMARY   KEY,

supplier_name   varchar2(50)

not   null,   contact_name

varchar2(50)

);

CREATE TABLE products

(product_id

numeric(10)   not

null,   supplier_id

numeric(10)   not

null,

CONSTRAINT fk1

FOREIGN   KEY

(supplier_id)

REFERENCES

supplier(supplier_id)

);

a. MODIFY TABLE products DROP CONSTRAINT fk1;

b. ALTER TABLE products DELETE CONSTRAINT fk1;

c. ALTER TABLE products DROP CONSTRAINT fk1;

d. MODIFY TABLE products DELETE CONSTRAINT fk1;

In which normal form the transitive dependency is not allowed.

a. 1NF

b. 2NF

c. 3NF

d. BCNF

Consider 2 tables Associate and

LearningCourse   AssociateID

Name Address Age

145 Anirudh Delhi 21

256 Vishal Pune 23

356 Harini Chennai 19

432 Shobhi Bangalore 18

Course_ID AssociateID

==============
=========== 1 145

2 256

2 356

3 432

5 1056

4 1189

Which query will give the

below output Course_ID

Name Age

====================

===========

1 Anirudh 21
2 Vishal 23
2 Harini 19
3 Shobhi 18

a.   SELECT   LearningCourse.COURSE_ID, Associate.NAME, Associate.AGE FROM Associate INNER JOIN LearningCourse

ON   Associate.AssociateID =   LearningCourse. AssociateID;

b.   SELECT Student.NAME,LearningCourse.COU RSE_ID FROM Associate

LEFT   JOIN LearningCourse ON LearningCourse.

AssociateID = Associate. AssociateID;

c.   SELECT Associate.NAME,LearningCourse.COU RSE_ID FROM Associate

RIGHT   JOIN LearningCourse

ON
LearningCourse.

AssociateID =
Associate.
AssociateID;

d.   SELECT   LearningCourse.COURSE_ID,
Associate.NAME, Associate.AGE FROM Associate SELF
JOIN LearningCourse

ON   Associate.AssociateID
=   LearningCourse.
AssociateID;

What is wrong in the following code?

```
CREATE       OR       REPLACE       FUNCTION

FACULTY_FUN(F_YRSOFEXP                        IN

FACULTY_DEMO.YRSOFEXP%TYPE)       RETURN

NUMBER IS


    TOTALCOUNT NUMBER :=0;


BEGIN

  SELECT       COUNT(*)       AS

   TOTALCOUNT       FROM

   FACULTY_DEMO       WHERE

   YRSOFEXP>F_YRSOFEXP;

   RETURN TOTALCOUNT;


END;
```

a. Select query is wrong. INTO clause to fetch count to TOTALCOUNTis missing.

b. Declaration of variable totalcount is incorrect

c. Declaration of variable F_YRSOFEXP is incorrect

d. None of the options

PL/SQL automatically and implicitly declares the loop index variable with datatype ------------------------

a. INTEGER

b. CHAR

c. STRING

d. None of the options

Are the following two sets of variable

declarations equivalent?

a.my_name VARCHAR2(25);

next_name VARCHAR2(25);

b.my_name ARCHAR2(25);

next_name myname%TYPE;

a. TRUE

b. FALSE

Choose the description which best matches the below PL/SQL script?

declare

    bonus

real; begin

```
for     emp_rec     in     (select

    empno,sal,comm   from   emp)

    loop

        bonus:=(emp_rec.sal*0.05)+(emp_r

        ec.comm *0.025);  INSERT  INTO

        bonuses                VALUES

        (emp_rec.empno,bonus);

    end loop;

    commit;

End;
```

a. PL/SQL script that uses Cursor FOR loop to calculate bonus for employees as 5% of salary +b.5%of comm. The calculated bonus is stored in a table bonuses.

b. PL/SQL script that uses anonymous block to calculate bonus for employees as 0.05% of salary +0.025%of comm. The calculated bonus is stored in a table bonuses.

c. PL/SQL script that uses procedure to calculate bonus for employees as 5% of salary +b.5%of comm. The calculated bonus is stored in a table bonuses.

d. PL/SQL script that uses function to calculate bonus for employees as 5% of salary +b.5%of comm. The calculated bonus is stored in a table bonuses.

What is the output for

the   following: public

class StringDemo {

```
public static void main(String[] args) {

String  str1="Hello

World";      String

str2=new

String(str1);

System.out.println(

str1==str2);  String

str3=str1;

System.out.println(

str1==str3);

}
}
```

a. true true

b. false true

c. true false

Which of the below statement is true: a. Java is a platform dependent language

b. JRE is platform independent

c. JVM is platform dependent

d. JVM interprets machine specific instruction set and converts into bytecode

Which is a not characteristic of java programming language?

a. procedural

b. robust

c. distributed

d. multithreaded

Idntify the SQL queries with proper group by and having usage

a.   SELECT   empa.LastName, COUNT(orda.OrderID) FROM Orders ord1 INNER JOIN Employees emp1

ON Orda.EmployeeID=empa.EmployeeID ˙GROUP BY LastName

HAVING COUNT(orda.OrderID) > 10

b.   SELECT   emp.LastName, COUNT(ord.OrderID) FROM Orders ord INNER JOIN Employees emp

ON Ord.EmployeeID=emp.EmployeeID GROUP BY LastName

HAVING COUNT(ord.OrderID) > 10

c.   SELECT   emp.LastName, COUNT(ord.OrderID) FROM Orders ord INNER JOIN Employees emp

ON Ord.EmployeeID=emp.EmployeeID GROUP BY LastName,COUNT(ord.OrderID)   HAVING COUNT(ord.OrderID) > 10

d.   SELECT   emp.LastName, COUNT(ord.OrderID) FROM Orders ord INNER JOIN Employees emp

ON Ord.EmployeeID=emp.EmployeeID GROUP BY LastName,COUNT(ord.OrderID)   HAVING (ord.OrderID) > 10

Pick the correct variable declarations from the given list

a. empsal number := 10

b. empno number(5) NOT NULL := 2;

c. empname varchar2(15) := 'Brandson';

d. empdept CONSTANT varchar2(5) := 'HR';

What is the output of below

python code? s='tcstcstcs

qcityqcity'

print(s[3:6])

a. TCS TCS

b. CS

c. tcs

What is the output of below

python code? dictionary =

{}

dictionary[1] = 2
dictionary['1'] = 3
dictionary[1] += 4

sum = 0

for k in dictionary

:

sum += dictionary[k]

print sum

a. 9

b. 5

c. 4

d. 2

What is the output of the below query?

INSERT IGNORE INTO employee (employee_id,last_name, first_name,age) VALUES(1234,'Ryan', 'Thomas',34);

a. The query is syntactically wrong

b. Query will insert the record in to employee table

c. Query will ignore if the record/tuple is already present in the table else it will insert the record .

d. None of the options

Consider the following Employee table

Name   Null   Type

-------------- ---------------- ----------------------------

EMPID   NOT

NULL

NUMBER(10)

EMPNAME   NOT

NULL

VARCHAR2(50)

BRANCHID   NOT

NULL

NUMBER(10)

Choose the query which is used to find all the EMPNAME starting with Sur

a. SELECT EMPNAME FROM EMPLOYEE WHERE EMPNAME REGEXP '$Sur';

b. None of the options

c. SELECT EMPNAME FROM Employee WHERE EMPNAME REGEXP '^Sur';

d. SELECT EMPNAME FROM EMPLOYEE WHERE EMPNAME REGEXP '*Sur'

What is the output of the below Query :

SELECT USER( )

a. The query is syntactically wrong

b. Query will return current user name

c. Query will return current user name and logged in details like logged in date , last login etc..

d. Query will return current user name and last login details

In MySQL – ISITNULL condition is used to check if there is a NULL value in the expression

a. FALSE

b. TRUE

Consider the following Employee table

Name   Null   Type

------------   ------------   --------------------

EMPID   NOT

NULL   NUMBER(10)

EMPNAME   NOT

NULL

VARCHAR2(50)

BRANCHID   NOT

NULL   NUMBER(10)

BRANCHNAME

NOT   NULL

VARCHAR2(50)

Choose the query which is used to add a column AGE of type integer

a. It is not possible to add the column once a table is created.

b. Alter table Employee add AGE integer

c. Alter table Employee add AGE

d. Alter table Employee add column AGE integer;

What is the output of the below Query :

USE CUSTOMER;

a. The query is syntactically wrong

b. SQL Command is used to select database named as "CUSTOMER"

c. SQL Command is used to select table named as "CUSTOMER"

d. SQL Command is used to select view named as "CUSTOMER"

Which of the following queries can be correct according to the below projected requirement "Display the details of all those employees for whom "a" is the first or last cha r"?

Assume the table name as emp

a. Select * from emp where name like 'a%' or name like '%a'

b. Select * from emp where name in('a%', '%a')

c. Select * from emp where name between 'a%' and '%a'

d. Not Possible

Which of the following constraint types are called as TABLE LEVEL constraints?

a. NOT NULL

b. UNIQUE and PRIMARY KEY

c. PRIMARY KEY

d. DEFAULT

What the following query will do?

DELETE * FROM books WHERE bookid=4;

a. The query is syntactically wrong

b. Query will delete the book whose bookid is 4

c. Query will delete all the books

d. None of the options

Identify the unordered collections in python a. List

b. Set

c. Dictionary and Set

d. Tuple

What is the output of the below query? TRUNCATE TABLE EMPLOYEE;

a. The query is syntactically wrong

b. Query will delete all the rows in the Employee table and structure remains

c. Query will delete all the rows in the Employee table and the structure

d. All of the options

DOT NET

KYT

The study of computer algorithms that improve automatically through experience
a. Artificial Intelligence
b. Neural Networks
c. Machine Learning
d. Robotics

When Tata Consultancy Services established?
a. 1978
b. 1968
c. 1988
d. 1971

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Prime difference between Public and Private Cloud is

a. Hardware used

b. Deployment Location

c. Software used

d. All of the options

Mobile application can interact with GPS and Camera of the device

a. TRUE

b. FALSE

BizSkills

Judging another person's views solely based on our own values and culture is called :

a. Centrality

b. Diversity

c. Ethnocentrism

d. Criticism

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build better workplace relationships. Select the best option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward through chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

What is true about Agile principles?

A. Leadership over management
B. Management over leadership
C. Adaptive over prescriptive
D. Prescriptive over adaptive
E. Customer collaboration over contract negotiation
F. Contract negotiation over customer collaboration

a. B,C,E

b. A,D,F

c. A,C,E

d. B,D,F

When declining help, what should you be wary of, more than the actual words ?

a. The tone and facial expression.

b. The words are the most important aspect. You need not consider anything else.

c. We should never decline help in the first place.

d. Ignoring is the best way to decline help.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
1.Present accurate facts and figures.
b.Present facts and not personal
views.   c.Present   stereotypical
information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

Being digital gives us easy access to all kinds of information about our organization. How is data security ensured?

a. Respect confidentiality of information. Prevent disclosure of information related to colleagues or co mpetitors.

b. Give paramount importance to the individual who has ctreated the content.

c. Ensures free, easy access to employee information.

d. None of the options.

Stephen would be traveling home to attend his brother's wedding. What information should he exclude w hile drafting a mail prior to his leave ?

a. The reason behind taking leave.

b. The period of his absence specified by dates.

c. The details of the wedding as well as Stephen's means of travelling back.

d. An update on the current status of his work and details about the hand over of the task to a fellow as sociate.

You have joined a project and you are in the training phase now. The project requires that you know the b asics of Ruby on Rails. You complete an e-learning course on the same and now you are taking the assess ment. During the assessment, a senior member of the team approaches you and asks if you can join a conf erence call instead of him. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your pre dicament. You can inform him that you would join the call after the assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come back in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason i s genuine when you talk to him while looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organizati on you can say 'no' as much as you want.

How can e-mails be used to convey negative information ?

a. Disclose the information in the introduction of the mail.

b. Drop an email to the associate regarding a meeting. Deliver the information during the face to face discussion.

c. Mention the positive aspects first before sharing the negative information via e-mail.

d. No negative information should be sent through an e-mail.

RiO

What is the sequence of the transition management phases

a. KT to Secondary Support to Primary Support

b. Primary Support to Secondary Support to KT

c. Secondary Support to primary support to KT

d. None of the options

After creating a Knowledge Article (KA)

a. Check and re-certify the KA at regular frequency

b. Ensure exceptions are clearly visible

c. Ensure you have used the standard template

d. All the options

Design Algorithm

Duplication of code is the root cause of most of the maintenance problems

a. TRUE

b. FALSE

Which of the following sorting algorithms in its typical implementation gives best performance when app lied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort

b. Merge Sort

c. Quick Sort

d. Bubble Sort

We use dynamic programming approach when

a. The solution has optimal substructure

b. The given problem can be reduced to the 3-SAT problem

c. It's faster than Greedy

d. We need an optimal solution

Java UI

what is the appearence of the <ins> tag?

a. It will display in bold.

b. It will display in italics.

c. It will display in underlined.

d. It will display in unformatted.

Which of the following is a correct syntax to display ordered list with roman numbers?

a.

  1. Coffee

  2. Tea

  3. Milk

b. Default its showing with roman numbers c.

  1. Coffee
  2. Tea
  3. Milk

d.

  I. Coffee

  II. Tea

  III. Milk

A link can be an image or any other HTML element.

a. TRUE

b. FALSE

<img url="sky.jpg" width="100" height="100" opacity="0.25">

What will be the output of the above code?

a. sky.jpg will display with height=100, width=100

b. sky.jpg will display with mentioned dimension and blurred becuase of low opacity.

c. sky.jpg will display with mentioned dimension in watermark mode.

d. None of the options

Which of the following is not an inline element in html?

a. <a>

b.

c. <img>

d. <hr>

```
<html>
<head>
<style>
p {
border:  1px  solid  black;
outline: #7845ef solid 10px;
}

.para {
border:  1px  solid  red;
outline: #7845ef solid 10px;
}

</style>
</head>
<body>

<p>Hello Java</p>

<p class="para">Hello HTML</p>

</body>
</html>
```

What will be the ouput of the above code?

a. It will display Hello Java in black color and Hello HTML in red color.

b. It will display Hello Java in black back-ground color and Hello HTML in red back-ground color wit h default text color.

c. It will display Hello Java as well as Hello HTML in black border color.

d. It will display Hello Java in black border color and Hello HTML in red border color.

Which of the following is incorrect?

```
a.  h1 {
color: blue;
}
b.  h1 {
color: darkblue;
}
c.  h1 {
color: #000ff;
```

}
d. h1 {
color: rgb(0,0,255);
}

Which of the following Statement is wrong for accessing the value of the text box?

Try it

a. Statement1

b. Statement2

c. Statement3

d. Statement4

An array can be declared in Javascript as;

a. var rating = ["Avg", "Medium", "High"];

b. var rating = {"Avg", "Medium", "High"};

c. var rating = <"Avg", "Medium", "High">;

d. None of options

```
<html>
<script>
function                displayTime()                {
document.getElementById("abc").innerHTML = Date();
}
</script>
<body>
<div id="abc" style="display:none"></div>
<button onclick="displayTime()">What is the time?</button>

</body>
</html>
```

What is the output of the above code?

a. Upon clicking the button it will show the current time above the button.

b. Upon clicking the button it will show the current time below the button.

c. Upon clicking the button it will show the current time with timezone above the button.

d. None of the options

C#

Syntax for variable declaration in c# is

a. <data_type> <variable_list>

b. <data_type> <variable_list>;

c. <variable_list> as <data_type>

d. None of the options

Select the value types

a. Int , Char and Struct

b. char and Struct

c. struct and Int

d. interface

What would be the output of program below.

```
namespace DataTypeApplication
{
class Program
{
static void Main(string[] args)
{
Console.WriteLine("Size   of   int:   {0}",   sizeof(int));
Console.ReadLine();
}
}
}
```
What would be the output of program below.

```
namespace DataTypeApplication
{
class Program
{
static void Main(string[] args)
{
Console.WriteLine("Size   of   int:   {0}",   sizeof(int));
Console.ReadLine();
}
}
}
```

a. Size of int: 4

b. Size of int: {0} 4

c. Size of int: 8

d. 4

Correct output for code is?

static void Main(string[] args)

```
{
float a = 10.553f;
long b = 12L;
int c;
c        =        Convert.ToInt32(a        +        b);
Console.WriteLine(c);Correct output for code is?
```

```
static void Main(string[] args)
{
float a = 10.553f;
long b = 12L;
int c;
c    =    Convert.ToInt32(a    +    b);
Console.WriteLine(c);
```

a. 2c.453

b. 22

c. 23

d. 2b.453

What will be the output of the following code snippet?
```
static void Main(string[] args)
{
int i;
for (i = 0; i <= 10; i++)
{
if (i == 4)
{
Console.Write(i + " "); continue;
}
else    if    (i    !=    4)
Console.Write(i  +  "  ");
else break;
}
Console.ReadLine();
}
```
What will be the output of the following code snippet?
```
static void Main(string[] args)
{
int i;
for (i = 0; i <= 10; i++)
{
if (i == 4)
{
Console.Write(i + " "); continue;
}
else    if    (i    !=    4)
Console.Write(i  +  "  ");
else break;
```

```
}
Console.ReadLine();
}
```

a. 4 5 6 7 8 9 10

b. 1 2 3 4 5 6 7 8 9 10

c. 1 2 3 4   '

d. 0 1 2 3 4 5 6 7 8 9 10

What is the output of the following

```
public enum Number
{
One,
Two = 10,
Three
}
class Program
{
static void Main(string[] args)
{
int     i     =     (int)Number.Three;
Console.WriteLine(i.ToString());
Console.ReadLine();
}
}
```

What is the output of the following

```
public enum Number
{
One,
Two = 10,
Three
}
class Program
{
static void Main(string[] args)
{
int     i     =     (int)Number.Three;
Console.WriteLine(i.ToString());
Console.ReadLine();
}
}
```

a. 0

b. 10

c. 11

d. Compile error "use of unassigned variable Three"

Which of the following statements are correct?

a.Data members of a class are by default public.
b.Data members of a class are by default private.
c.Member functions of a class are by default public.
d.A private function of a class can access a public function within the same class.
e.Member function of a class are by default private.

a. 1, 3, 5

b. 2, 4, 5

c. 1,4

d. 1, 2, 3

What would be the output of the following code?
```
static void Main(string[] args)
{
string        s       =       "       ";
Console.WriteLine(s.Trim().Length);
Console.ReadLine();
}
```
What would be the output of the following code?
```
static void Main(string[] args)
{
string        s       =       "       ";
Console.WriteLine(s.Trim().Length);
Console.ReadLine();
}
```
a. 0

b. 1

c. 2

d. None of the options

A constructor

a. is used to create objects

b. must have the same name as the class it is declared within

c. maybe overloaded

d. All of the options

Which keyword is used to add an item to the list?

a. Add

b. Insert

c. AddRange

d. Take

ADO.Net and Web API

CREATE, ALTER are_____category of statements
a. A.DML
b. B.DDL
c. C.UML
d. Both A and B

Primary key should always be auto increment
a. TRUE
b. FALSE

If a view is created from one table then it can also be used to insert,update,delete values to the table
a. TRUE
b. FALSE

Which join is used to join a table to itself?
a. Equi
b. Inner Joins
c. Cross join
d. Self

Which is true regarding indexing operation?
a. A.Sorts a file using a single key.
b. B.Sorts a file using two keys
c. C.Established an index for a file
d. Both B and C

SQL

Which of the following is the object of .NET data provider?
a. Connection and Command
b. Command
c. Execute and Command
d. All the options

Consider the following code snippet:

```
DataSet myDataSet = new DataSet();
myDataAdapter.Fill(myDataSet);
```

What is the functionality of the above code segment?
a. Executes the SelectCommand and fills myDataSet with the resultant data
b. Executes the SelectCommand but does not fill myDataSet with the resultant data

c. It declares the DataSet()

d. It declares the DataAdapter

Which one of the following is TRUE about DataSet ?

a. Data is read-only

b. Cannot relate to XML

c. Data is confined to only one data source

d. DataSet is a Disconnected Model

Which ADO.NET object is very fast in getting data from database?

a. Dataset

b. Data Reader

c. Data Adapter

d. Data View

Which of the following options describes the roles of the DataReader class in ADO.NET connections?

a. It returns a read-only rowset from the datasource

b. It returns a read-only, forward-only rowset from the data source

c. A DataReader provides fast access when a forward-only sequential read is needed

d. A DataReader does not provide fast access in sequential read

KYT

In which year TCS had won the Pega Partner Excellence Award?

a. 2017

b. 2007

c. 2016

d. 2018

Who are the value chain partners with respect to TCS?

a. a.suppliers and service providers

b. b.joint-venture Partners

c. Option 1 and 2

d. Option 1 only

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Utility cloud computing services offer virtual storage and server options, where the companies can access

it on demand

a. TRUE

b. FALSE

Which of the method is used by Humans while making judgments

a. Conscious'

b. Step by step

c. Intuitive based

d. Program based

BizSkills

What are the two 'A's of effective writing? a. Accurate and Approachable

b. Affirmative and Accessible

c. Accurate and Accessible

d. Accurate and Affirmative

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build better workplace relationships. Select the be st option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward thro ugh chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

Which of the following is NOT expected of a good listener?

a. Listening attentively

b. Maintaining eye contact

c. Seeking clarifications

d. Interrupting the speaker

Identify the correct statement a. Accepting help is a sign of weakness.

b. We can be a little careless as we can apologize whenever we make a mistake. After all mistakes hel p us learn.

c. We need to accept help when needed. The key is to be assertive. Being honest about your weakness builds trust.

d. Ask for help even before trying something on your own. It will help you get a head start.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
a.Present accurate facts and figures.
b.Present facts and not personal views.
c.Present stereotypical information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

You are a team lead. During an initial meeting, you realise that you need 3 additional resources to work on the project. How will you communicate the same effectively in a Project Status Report?

a. Having 3 more associates in our team would help us complete the task effectively.

b. We have less number of associates in our team to complete the project work so if we are provided with 3 more associates, we would be able to complete the task.

c. We are facing a shortage of manpower for the task. Hence we need 3 more resources.

d. We need 3 associates to join our team. This would help us complete the task effectively.

Which of the choices make the following sentence correct and consistent - 'The instructor explains the diagram to students who asked questions during the lecture.'

a. The instructor explained the diagram to students who ask questions during the lecture.

b. The instructor explains the diagram to students who asks questions during the lecture

c. The instructor explains the diagram to students who ask questions during the lecture.

You have joined a project and you are in the training phase now. The project requires that you know the basics of Ruby on Rails. You complete an e-learning course on the same and now you are taking the assessment. During the assessment, a senior member of the team approaches you and asks if you can join a conference call instead of him. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your predicament. You can inform him that you would join the call after the assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come back in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason is genuine when you talk to him while looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organization you can say 'no' as much as you want.

What factors should you consider before preparing a help document on the newly introduced 'search' functionality in ABC online application ?

a. Interest level of the users.

b. Gender of the users.

c. Technical knowledge of the users.

d. Experience of the users.

RiO

During a crisis, do not cascade incorrect updates to the customer and other associates. Always wait for confirmation from the

a. BCP Manager

b. DR team

c. Crisis Management Team

d. None of the options

Before accessing customer system what are the important steps to be completed by recruits

a. Reading and Signing A non-disclosure agreement (NDA)

b. Complete Background Checks(BGC) if required.

c. Both the options

Design Algorithms

Which of the following standard algorithms is not Dynamic Programming based

a. Bellman–Ford Algorithm for single source shortest path

b. Floyd Warshall Algorithm for all pairs shortest paths

c. 0-1 Knapsack problem

d. Prim's Minimum Spanning Tree

Which of the following sorting algorithms in its typical implementation gives best performance when applied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort

b. Merge Sort

c. Quick Sort

d. Bubble Sort

which is the fastest sorting algorithm

a. Bubble sort

b. Merge Sort

c. Heap Sort

d. Selection sort

Unix

What is the syntax to combine the content of two files(file1, file2) into another file (newfilename)?

a. cat file1 file2 > newfilename

b. cat file1 file2 >> newfilename

c. cat file1 file2 < newfilename

d. cat file1 file2 << newfilename

Example.txt file contains the following text:

Java Programming Language.

Java and Python are programming languages.

Python Programming language.

What is the output generated by the below command.
$ grep -v Java Example.txt

a. Java and Python are programming languages. Python Programming language.

b. Java Programming Language.
Java and Python are programming languages.

c. Python Programming language.

d. Java Programming Language. Python Programming language.

When we are deleting the folder and when we are not sure whether the folder is having files or not in it? Then which of the below command is right command to apply, which deletes only the folder which are e mpty?

a. rm

b. rmdir

c. rm -rf

d. rmdir -i

In shell script if we write the below statement, What does the statement refers to?

if [-r $2]

then

a. The second argument supplied from command line
Argument is existing or not

b. Verifies, whether the user is having the read permissions on the file (Whose name supplied from co mmand line
Argument, as second argument) or not

c. The file supplied from command line argument is existing or not

d. The column is existing or not

grep "Tata.*Services$" *

What would be the output of the above command?

a. It will display the filename and the pattern ("Tata Consultancy Services Limited"), if the pattern is f ound in any file

b. It will display the filename and the pattern ("Tata Motors Limited"), if the pattern is found in any fi le

c. It will display the filename and the lines ending with the pattern("Tata Consultancy Services") in th e file

d.

It will display the filename and the lines ending with the pattern ("Tata Capital services") in the file

Java UI

Do all HTML tags have an end tag?

a. Yes

b. No

What is the purpose of border-collpase property?

a. paragraph borders should be collapsed into a single border

b. table borders should be collapsed into a single border

c. div borders should be collapsed into a single border

d. span borders should be collapsed into a single border

Which of the following is a correct syntax to display ordered list with roman numbers?

a.
Coffee
Tea
Milk

b. Default its showing with roman numbers c.
<ol style="list-style-type:roman;">
Coffee
Tea
Milk

d.
<ol type="I">
Coffee
Tea
Milk

Which of the following is a correct syntax for applying border color for <h1>tag?

a. <h1 style="solid Tomato;">Hello World</h1>

b. <h1 style="border: 2px solid Tomato;">Hello World</h1>

c. <h1 style="border: 2px, solid Tomato;">Hello World</h1>

d. None of the options

Which of the following property is used to specifies an image to use as the background of an element

a. backg-img

b. backg-image

c. background-img

d. background-image

What is the font color for the text 'Hello World'?

```
<html>
<head>
<style>
body       {
color: blue;
}

h1 {
color: green;
}
</style>
</head>
<body>

<h1>Hello World</h1>

</body>
</html>
```

a. Green

b. Blue

c. Black

d. Default Color

Which of the following is not a valid style for the paragraph?

```
p {
color: red;
font-family: courier;
font-size: 160%;
border-style: dotted dashed solid double;
margin-right:       150px;
float: bottom;
}
```

a. Font-size

b. Border-style

c. float

d. Font-family

Which of the following is not a valid css unit?

a. %

b. px

c. em

d. ut

Which of the following Statement is wrong for accessing the value of the text box?

```
<html>
<body>
<span id="frm">
<input type="text" name="user" id="user">
</span>
<button onclick="myFunction()">Try it</button>

<p id="xyz"></p>

<script>
function myFunction() {
var a = document.getElementById("user").value;
var b = document.getElementsByName("user").value;
var c = document.getElementById("frm").innerHTML;
var d = document.getElementsByName("user");
alert(d);
document.getElementById("xyz").innerHTML = a;//Statement1
document.getElementById("xyz").innerHTML = b;//Statement2
document.getElementById("xyz").innerHTML = c;//Statement3
document.getElementById("xyz").innerHTML = d.value;//Statement4
}
</script>

</body>
</html>
```

a. Statement1

b. Statement2

c. Statement3

d. Statement4

Which of the following method is used to validate a number?

a. isFinite()

b. isInteger()

c. isSafeInteger()

d. isNaN()

Java

Look at the below SQL join and select the type of join

select e.ename as employee m.ename as manager from employees m JOIN employees e ON e.mgr = m.empno
where e.bdate > date '1965-01-01' order by employee;

a. Self join
b. Inner join
c. Cross join
d. Outer join

Which of the following way or ways before is/are correct to insert DATE in a table?

a. insert into Employee(Start_Date) values ('05-FEB-2005')
b. insert into Employee(Start_Date) values ('FEB-05-2005')
c. insert into Employee(Start_Date) values ('2005-05-FEB')
d. None of the options

Consider the following set of relations

EMP (emp_no,emp_name,dept_no,salary)

DEPT (dept_no,dept_name,location)

Write SQL query for the following

Find all the employees whose departments are located in 'Mumbai' and salary is greater than Rs. 20,000.

a. select emp_name from dept where dept_no and location='Mumbai';
b. select emp_name from emp where salary > 20,000 and dept_no in (select dept_no from dept where location = 'Mumbai');
c. select dept_no ,count(emp_no) from emp where salary > 50,000 group by dept_no;
d. update table emp where emp_name='Mumbai';

Consider the following schema −

STUDENTS(student_code, first_name, last_name, email, phone_no, date_of_birth, honours_subject, percentage_of_marks);

Which of the following query would display names of all the students whose email ids are not provided?

a. select first_name, last name from students where email = 0;
b. select first_name, last name from students where email = ' ';

c. select first_name, last name from students where email = 'null';

d. select first_name, last name from students where email is null;

What will happen when the code is executed?

DECLARE

-- Global variables

employeeId number := 95;

BEGIN

dbms_output.put_line('number: ' || employeeId);

DECLARE

-- Local variables

employeeId number := 195;

BEGIN

dbms_output.put_line('num: ' || employeeId);

END;

END;

a. It won't execute, it has syntax error

b. It will print num:

95

Num: 195

c. It will print num:

95

Num: 95

d. It will print Num:

195

Num: 195

Which of the following is not true about PL/SQL cursors?

a. A cursor is a view on a table.

b. A cursor holds the rows (one or more) returned by a SQL statement.

c. The set of rows the cursor holds is referred to as the active set.

d. None of the options

PL/SQL gives you control to declare variables and access them within the block. The declared variables can be used at the time of query processing. Is the statement True or False?

a. TRUE

b. FALSE

Oracle creates a memory area, known as context area, for processing an SQL statement, which contains all information needed for processing the statement, for example, number of rows processed, etc.The pointer to this context area is called as ?

a. Trigger

b. Cursor

c. Record

d. Placeholder

Which of the following is correct?

I. void display(String … args, int.. num){};

II. void   method2(String...   name,double

b){}; III.void method(Sting … a){};

a. I

b. II

c. III

d. All of the options.

Which among the following are valid declarations?

I. [] double pencil;

II. double[] box;

III .double crayon[];

a. Only III

b. II and III

c. Only II

d. All of the options

Which of the following is used to determine the number of elements in an given array called box?

a. box.length()

b. box.size()

c. box.size

d. box.length

What is the output of the following?

```java
public class Navigation {

public static void main(String[] args) {

{

String[] directions = new String[] {"North","South","East","West" };

for    (int    i    =    0;    i    <directions.length();    i++)

System.out.println(directions[i]);

}

}

}
```

a.   North
South
East
West

b.   North
South
East

c. The code does not compile.

d. The code compiles but throws exception at runtime.

For given below code :

```java
public class Navigation {

public static void main(String[] args) {

{

String[] directions = new String[] {"North","South","East","West" };

//code of line that will cause ArrayIndexBoundOfException
```

```
System.out.println(directions[i]);

    }

  }

}
```

Which of the following lines throws ArrayIndexOutOfBoundException?

for (int i = 0; i <=directions.length; i++) //m1

for (int i = 1; i <=directions.length; i++) //m2

for (int i = 0; i <=directions.length; i--) //m3

for (int i = 0; i <directions.length; i++) //m4

a. m1,m2
b. m1,m2,m3
c. All of the options
d. m1 and m4

Which Query is correct to display the commission of all the salesmen servicing customers in Paris.
salesman
salesman_id name city commission

5001 James New York 0.15
5002 Nail Paris 0.13

Customer

customer_id cust_name city grade salesman_id

3002 Nick New York 100 5001
3007 Brad New York 200 5001

a.   SELECT   commission
FROM salesman s,customer c
WHERE c.city = 'Paris';

b.   SELECT   commission
FROM salesman
WHERE salesman_id IN
(SELECT   salesman_id
FROM   customer
WHERE city = 'Paris');

c.   SELECT   commission
FROM salesman s,customer c

WHERE s.salesman_id =c.salesman_id
and c.city = 'Paris';

d. None of the options.

Pick the correct variable declarations from the given list

a. empsal number := 10
b. empno number(5) NOT NULL := 2;
c. empname varchar2(15) := 'Brandson';
d. empdept CONSTANT varchar2(5) := 'HR';

Python

What is the output of below code?

x = sum(range(7))

print(x)

a. 21
b. 22
c. 20
d. 23

What is the output of below code?

TCS = { '1' : 1, '2' : 2 }

theCopy = TCS

TCS['1'] = 5

sum = TCS['1'] + theCopy['1']

print(sum)

a. 9
b. 8
c. 7
d. 10

Is Tuple mutable?

a. Yes
b. NO

If we have a list below
,
X = [1,2,3,4]

How do we print the first element?
a. print(first)
b. print x(1)
c. print x[1]
d. print x[0]

Choose the numeric data types in MySQL
a. CHAR(size)
b. TINYINT and DECIMAL(m,d)
c. BINARY(size)

Consider a database with the name products. Choose the query to select the products database
a. USE products;
b. USE Products; ;
c. USE PRODUCTS; ;;
d. SELECT products;

Consider the table Table1

ID   Name   Stream

==========================

128956   Naveen   Python

165780   Raghu   Dot Net

189078   Prathik   Mainframe

178908   Mani   Angular JS

Which query will provide the below output
Name

========

Naveen

Raghu

Mani

a. select name from Table1 where stream like 'M%'

b. select name from Table1 where stream not like 'M%'

c. select name from Table1 where stream not regexp 'M%'

d. select name from Table1 where stream regexp 'M%'

Consider the following table products

ProductId   ProductName   Price

==============================

12   Toddler dress   100

14   Footwears   500

24   Soft Toys   400

Which query produce the below output

ProductId   ProductName   Price

================================

14   Footwears   500

24   Soft Toys   400

a. SELECT * FROM products WHERE ProductName LIKE 'T%';

b. SELECT * FROM products WHERE ProductName IS NOT T%;

c. SELECT * FROM products WHERE ProductName NOT LIKE 'T%';

d. SELECT * FROM products WHERE ProductName IS NOT IN T%;

USE is the command to select a particular database

a. TRUE

b. FALSE

SELECT EmployeeName FROM Employee order by EmployeeId Desc LIMIT 1;

a. Query will return the first EmployeeName from Employee table ordered by EmployeeId in descending order

b. Query will return the last EmployeeName from Employee table ordered by EmployeeId in descending order

c. The query is syntactically wrong

d. Query will not return any rows

Consider the following table

CourseIdCourseNameNoofParticipants

12 C 100

14 C++ 500

24 Java 5000

Which subquery will be used to display records whose noofparticipants are more than the average

a. SELECT AVG(NoofParticipants) FROM COURSE

b. select * from COURSE where NoofParticipants>NoofParticipants/3;

c. select * from COURSE where NoofParticipants >(SELECT AVG(NoofParticipants) FROM COURSE);

d. None of the options

Consider a database products
Choose the query to select the products database

a. USE products;

b. USE Products; ;

c. USE PRODUCTS; ;;

d. SELECT products;

ProductId	ProductName	Price
12	Toddler dress	100
14	Footwears	500
24	Soft Toys	400

Which query produce the below output

ProductId	ProductName	Price
14	Footwears	500
24	Soft Toys	400

a. SELECT * FROM products WHERE ProductName LIKE 'T%';

b. SELECT * FROM products WHERE ProductName IS NOT T%;

c. SELECT * FROM products WHERE ProductName NOT LIKE 'T%';

d. SELECT * FROM products WHERE ProductName IS NOT IN T%;

If Tcs is a class, how do we make a new Tcs object?

a. x = new Tcs()

b. x = Tcs()

c. Tcs x = new Tcs()

d. Tcs.new(Object)

ProductId	ProductName	Price
12	Toddler dress	100
14	Footwears	500
24	Soft Toys	400

what is the output of the Query :select productname from products where price >(select avg(price) from products);

a. Query is syntatically wrong

b. Toddler dress
Footwears
Soft Toys

c. Footwears

d. Footwears Soft Toys

KYT

In which year Tata Consultancy Services (TCS) becomes the first Indian software company to cross one billion dollars in revenues?

a. 2002

b. 2003

c. 2013

d. 2004

Which is a best Mobile App when we are dealing with a Resource Intensive Application

a. Native Application

b. Web Application

c. Composite Application

d. Hybrid Application

Consumers assert that cloud computing permits businesses to bypass upfront infrastructure charges

a. TRUE

b. FALSE

Choose one option which is not a Cloud Platform

a. IBM's Blue Cloud

b. Wipro Air Cloud

c. Amazon Elastic Compute Cloud

d. Windows Azure Services Platform

Big Data Analytics on Genomic Medicine will help in prediction of Genetic Diseases

a. TRUE

b. FALSE

BizSkills

Which of the following can make or break a presentation ?

a. Non-verbal communication and tone

b. Style of presentation &use of jargons

c. Audience Orientation

d. All of the options

Which of the following statements is true? a. Downward flow of communication is when the speaker uses a condescending tone.

b. Downward flow of communication refers to communication between peers.

c. Downward flow of communication is when information flows from the supervisor to the subordinat e.

d. Downward flow of communication is when someone is explaining a concept in response to a questi on.

You have a great idea for your team which will make the application 40% faster. How will you persuade your team ?

a. You need to persuade the manager and not the team.

b. Make the others think about your point. Let them participate in the discussion before the decision. B e open to their queries.

c. You need not have a discussion as this is definitely going to benefit the team. Send an email asking t hem to incorporate your idea

d. Tell them it is your birthday and then share the idea. They cannot say no on your Birthday.

What is Minutes of the Meeting (MoM) ?

a. MoM is a document that contains all the points discussed during a meeting which can be referred w henever needed.

b. MOM is a document which contains a detailed report of statements made by the host

c. MoM is a document that contains the report of the project which was discussed in the meeting.

d. MoM is a document that contains the status of the project after having a discussion with the client.

Which corporate culture is better, a task-oriented or relationship-oriented ?

a. Task oriented is better because it is more efficient as people focus on tasks and not the relationships.

b. Relationship-oriented culture is better because it enables trust which in turn leads to collaboration.

c. Both corporate cultures have their downsides, so every company needs to have a mix of both.

d. Corporate culture doesn't have to be better than the other. It is the outworking of tradition, values an d history of a place.

What are the main features offered in the mail application apart from e-mail?
a) Schedule meetings and appointments.
b) Invite stakeholders for a meeting.
c) Accept/ decline an invitation.
d) Set reminders to attend meetings.

a. a,b & c

b. b, c & d

c. a, b, c & d

d. None of the options

How should you gather and share requirements for a project ?

a. Verbal specification of requirements alone is insufficient.

b. The requirements should be sent through an email.

c. The email should also have the relevant stakeholders in CC.

d. All of the options

What should you do when you interact with people from other cultures which are different than yours.

a. Treat them with respect as they are superior to you. See what you need to change in your own cultur e so that you are able to be equal to them.

b. Treat them with respect if they are your clients. As we need to do business with various people, we need to act respectful towards other cultures so that they are not offended.

c. Treat them with respect. Learn about their culture, so that you are able to work in an efficient mann er with them. Learning about their culture will help you avoid blunders.

d. Treat them with respect. Teach them your culture so that they are able to understand you in a better way. Take every chance to reinforce the superiority of your culture.

It is the final client demo of Payroll Management System. Aman, who is responsible to make the presenta tion is on an emergency leave. What can be done to handle the situation ?

a. Cancel the day's schedule and plan for the same on a later date when Aman is available because he can give the best presentation

b. The team avoids involvement because it is the team manager's responsibility to talk to the client and seek an alternative for the demonstration scheduled for the day.

c. The team members can connect with Aman who is on leave, and ask him/her to manage to come to work and give the demonstration as it is urgent.

d. Team member who is next in charge can hold a brief discussion with Aman and proceed with the demo. Only under unavoidable circumstances, it is ok to buy-in a day from the client.

What is technical writing?

a. Technical writing provides direction, instruction, or explanation on a particular subject.

b. The purpose of technical writing is to entertain and inform.

c. Technical writing results in accurate information geared to specifically targeted audiences.

d. All of the options

RiO

RiO week is celebrated to

a. bring an awareness about lifecycle of a software to all the TCSers

b. create awareness regarding software quality

c. An initiative that is aimed at improving our production support operations.

d. None of the choices are correct

Name the activity that is conducted frequently to ensure project has a strong backup plan that will help project thrive during a disaster

a. Evaluation of remediation plan

b. Mock BCP drills

c. Disaster management

d. Event management

Design Algorithms

One should avoid GOTO in Structured Programming - State true/false.

a. TRUE

b. FALSE

According to KISS Design Principle, we should use features like frameworks, APIs only when there are perceptible benefits to the problem we are solving.

a. TRUE

b. FALSE

What is Single Responsibility Principle

a. One person gets one responsibility

b. One class should perform a single task

c. Do One Thing At all levels

d. None of the options

Unix

Which symbol will be used with grep command to match the pattern pat at the beginning of a line?

a. ^pat

b. pat^

c. $pat

d. pat$

The user u123456 logged in and performed the following sequence of command. User's home directory is /home/u123456. What will be the output of the last command?

$ cd project/module1

$ pwd

a. /home/u123456/project/module1

b. project/module1

c. ~/project/module1

d. /usr/u123456/project/module1

Which code will correctly calculate the newsal based on the years mentioned

Input file is as below

NameOfEmployee-age-YearOfJoining. The shell takes 2 inputs-file name and Name of Employee. Delimiter used in the input file is -.

a.   #!/bin/sh

x=$1

y=$2

if [-f $1]

then

z=$(grep $2 $1|cut -d '-' -f3)

echo $z

case "$z" in

"1990") newsal=`expr$(grep $2 $1|cut -d '|' -f5) + 200`

"2000") newsal=`expr$(grep $2 $1|cut -d '|' -f5) + 1000`

"2005") newsal=`expr$(grep $2 $1|cut -d '|' -f5) + 500`

;;

esac

fi

b.   #!/bin/sh

```
x=$1

y=$2

if [ -f $1 ]

then

z=$(grep $2 $1|cut -d '-' -f3)

echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' -f5) + 2000`

"2000") newsal=`expr $(grep $2 $1|cut -d '|' -f5) + 1000`

"2005") newsal=`expr $(grep $2 $1|cut -d '|' -f5) + 500`

;;

esac

fi

c.        #!/bin/sh

x=$1

y=$2

if [ -f $1 ]

then

z=$(grep $2 $1|cut -d '-' -f3)

echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +2000`

"2000") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +10`

"2005") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +500`
```

```
;;

esac

fi
d.      #!/bin/sh

x=$1

y=$2

if [ -f $1]

then

z=$(grep $2 $1|cut -d '-' -f3)

echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +2000`

"2000") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +1000`

"2005") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +50`

;;

esac

fi
```

Which command will delete the lines containing the pattern 'this' from the file?
a. delete -f this file
b. SED /this'/d file
c. Sed /'this'/d file
d. sed /this/d file

Assuming the files fileA, fileB, fileAB, fileBC and fileABC, exist in a directory testDir, which files will be listed if we use the following command

$ls testDir|grep file[AB]?
a. file A
b. file B
c. file ABC
d. file BC

SQL

A table containing employee have some faulty records .ie the year of joining(YOJ) was incorrectly entered for employee ids between 20 and 100. Choose from below the right sql query to correct the column year of joining (YOJ)as 2015.

a. update table Employees set YOJ=2015;

b. update Employees set YOJ=2015 where id between (20,100);

c. update Employees set YOJ=2015 where id>=20 and id<=100;

d. alter table employees add YOJ=2015 where id>=20 and id<=100;

Look at the below SQL join and select the type of join

select e.ename as employee m.ename as manager from employees m JOIN employees e ON e.mgr = m.empno
where e.bdate > date '1965-01-01' order by employee;

a. Self join

b. Inner join

c. Cross join

d. Outer join

Which of the following way or ways before is/are correct to insert DATE in a table?

a. insert into Employee(Start_Date) values ('05-FEB-2005')

b. insert into Employee(Start_Date) values ('FEB-05-2005')

c. insert into Employee(Start_Date) values ('2005-05-FEB')

d. None of the options

Consider the following set of relations

EMP (emp_no,emp_name,dept_no,salary)

DEPT   (dept_no,dept_name,location)

Write SQL query for the following

Find all the employees whose departments are located in 'Mumbai' and salary is greater than Rs. 20,000.

a. select emp_name from dept where dept_no and location='Mumbai';

b. select emp_name from emp where salary > 20,000 and dept_no in (select dept_no from dept where location = 'Mumbai');

c. select dept_no ,count(emp_no) from emp where salary > 50,000 group by dept_no;

d. update table emp where emp_name='Mumbai';

Identify the SQL queries which shows correct group by and having usage

a.   SELECT empa.LastName, COUNT(orda.OrderID) FROM Orders ord1
INNER JOIN Employees emp1
ON Orda.EmployeeID=empa.EmployeeID

GROUP BY LastName
HAVING COUNT(orda.OrderID) > 10

b.   SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders ord
INNER JOIN Employees emp
ON Ord.EmployeeID=emp.EmployeeID
GROUP BY LastName
HAVING COUNT(ord.OrderID) > 10

c.   SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders ord
INNER JOIN Employees emp
ON   Ord.EmployeeID=emp.EmployeeID
GROUP BY LastName,COUNT(ord.OrderID)
HAVING COUNT(ord.OrderID) > 10

d.   SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders ord
INNER JOIN Employees emp
ON   Ord.EmployeeID=emp.EmployeeID
GROUP BY LastName,COUNT(ord.OrderID)
HAVING (ord.OrderID) > 10

PLSQL

What will happen when the code is executed?

```
DECLARE

    --     Global     variables

    employeeId number :=  95;

BEGIN

    dbms_output.put_line('number:       '    ||     employeeId);

   DECLARE

      -- Local variables employeeId

              number :=  195;

    BEGIN

      dbms_output.put_line('num: ' || employeeId); END;

END;
```

a. It won't execute, it has syntax error

b. It will print num:

95

Num: 195

c. It will print num:

95

Num: 95

d. It will print Num:

195

Num: 195

Which of the following is not true about PL/SQL cursors?

a. A cursor is a view on a table.

b. A cursor holds the rows (one or more) returned by a SQL statement.

c. The set of rows the cursor holds is referred to as the active set.

d. None of the options

What will be the output of the following code snippet?

DECLARE

a number(3) := 100;

b number(3) := 200;

BEGIN

IF(a = 100) THEN

IF(b < 200) THEN

dbms_output.put_line(b);

END IF;

END IF;

dbms_output.put_line(a);

END;

a. It has syntax error, so there will not be any output. b.
200

c. 200, 100

d. 100

The following code tries to fetch some information from all the rows in a table named customers for use in a PL/SQL block. What is wrong in the following code?

DECLARE

cid   customers.id%type;

cname customers.name%type;

caddr customers.address%type;

CURSOR c1 is SELECT id, name, address FROM customers;

BEGIN

LOOP

FETCH c1 into c_id, c_name, c_addr;

EXIT WHEN c1%notfound;

dbms_output.put_line(cid || ' ' || cname || ' ' || caddr);

END LOOP;

CLOSE c1;

END;

a. It need not use a cursor.
b. The cursor is not opened.
c. It will not print information from all the rows.
d. There is nothing wrong in the code.

A cursor for loop performs the following operations implicitly. Select the appropriate options
a. Open the cursor
b. fetch the rows
c. update the table
d. close the cursor

Java UI

Which of the following is a correct syntax for grouping selectors in CSS?

a.
h2,h3
{
color:blue;

font-size:120px;
font-family:italic;
}

b.
#h2;h3
{
color:blue;
font-size:120px;
font-family:italic;
}

c.
hb.h3
{
color:blue;
font-size:120px;
font-family:italic;
}

Whether a single text link point to two different web pages at a same time?

a. Yes
b. No

What is the default value for checkbox control

a. on
b. off

.Which of the following is creating multi line input control?

a. input
b. text
c. textarea
d. textline

Which of the following syntax is correct?

a. p{color;red;text-align;right;}
b. p{color=red;text-align=right}
c. p{color:red;text-align:right;}
d. p{color:red;text-align:right}

Which of the following is not valid style?

a. p {
margin: collapse;
}

b.   p { margin:
inherit;   '
}

c. p {
margin: 25px 50px;
}

d.   p   {
margin: 25px;
}

```
<html>
<head>
<style>
div p {
background-color: green;
}
</style>
</head>
<body>

<div>
<p>Para1</p>

<p>Para2</p>
<section><p>Para3</p></section>
</div>

<p>Para4</p>
<p>Para5</p>

</body>
</html>
```

What will be the output of the above code?

a. Para1, Para2, Para4, Para5 will display in green back ground

b. Para1, Para2 will display in green back ground c.
Para4, Para5 will display in green back ground

d. Para1, Para2, Para3 will display in green back ground

Which of the following is not a value for height and width properties;

a. auto

b. absolute

c. length

d. initial

We can write into an HTML element using the following;

a. document.write()

b. innerHTML

c. window.alert()

d. console.log()

What will be the output of the below code;

```
<!DOCTYPE html>
<html>
<body>

<p id="demo"></p>

<script>
var employee = {empNo:"1001", name:"Rajeev", designation:"SSE"};

document.getElementById("demo").innerHTML = employee;
</script>

</body>
</html>
```

a. 1001,Rajeev,SSE

b. empNo:"1001", name:"Rajeev", designation:"SSE"

c. [object Object]

d. Script error

Java

What will be the output of the following?

```
public class Test {

private static int start = 1;

int stop = 30;

public static void main(String[] args) {

Test tolls = new Test();

int     pause     =     20,     stop     =     40;
```

System.out.print(pause + tolls.stop + tolls.start);

}

}

a. The code does not compile due to line 6
b. The code does not compile due to line 7 c.
61
d. 51

What will be the output of the following?

public class Sprint {

static int start = 5;

final int end;

public void run(int distance) {

System.out.print(end+start+" ");

System.out.print(distance);

}

public static void main(String... start) {

Sprint   athlete=new   Sprint();

athlete.run(5);

}

}

a. 10 5
b. 5 5
c. The code does not compile due to line 3
d. The code does not compile due to line 4
5. The code does not compile due to line 5

From the following variable types , which variable is in always in scope for the entire program?
a. Local variable
b. Class variable
c. Instance variable

d. All of these

Which of the following is invalid as the first line of a Java file?

a. import app.*;
b. package app;
c. static int start=1
d. //App Manager

What will be the output of the following?

```java
public class Sprint {

static int start = 5;

final int end;

public Sprint(int x) {

x = 7.0;

end = x;

}

public void run(int distance) {

System.out.print(start+end+" ");

System.out.print(distance);

}

public static void main(String[] start) {

Sprint      athlete=new      Sprint(6);

athlete.run(5);

}

}
```

a. 12 5
b. 11 5
c. The code does not compile due to line 3
d. The code does not compile due to line 5

Python

Identify the immutable data type(s) in Python

a. List

b. Tuple,Dictionary

c. String

d. Tuple

What will calculate(2030) return if the fucntion is defined as below?

```
def calculate(num): i=0

        while num > 0:

                i  =  i*10  +  num%10

                num = num//10

        return i
```

a. 302

b. 2030

c. 5

d. 23

What will be the output of the following Python function when called as print_message('Gary')?

```
def print_message(name):

if(name=='Rob'):
        msg    = 'Hello Rob' else
        msg    = 'Hello there'
        return msg
```

a. SyntaxError: expected an indented block
b. Hello there
c. Hello Rob
d. Prints nothing

What will be the value of a after executing this code?

```
a=0
for b in range(0,10,2):
        a += b +10
```

a. 70
b. 20
c. 25
d. Syntax Error

What is the expected output of the

below code? A=[0,1,2,3,4,5,6]

print(A[::2])
a. [0, 2, 4, 6]
b. [0,1,2]
c. [0,1]
d. [2,3,4,5,6]

KYT

We will be fair, honest, transparent and ethical in our conduct; everything we do must stand the test of public scrutiny. The above quote applies to which of our five core values.

a. RESPONSIBILITY
b. INTEGRITY
c. EXCELLENCE
d. PIONEERING

When Tata Consultancy Services established?

a. 1978
b. 1968
c. 1988
d. 1971

Some challenges in Artificial Intelligence are

a. Cost
b. Technology
c. Common Sense
d. All of the options

Prime difference between Public and Private Cloud is

a. Hardware used
b. Deployment Location
c. Software used
d. All of the options

Mobile application can interact with GPS and Camera of the device

a. TRUE
b. FALSE

BizSkill

Judging another person's views solely based on our own values and culture is called :

a. Centrality
b. Diversity
c. Ethnocentrism
d. Criticism

Use these MCQs as a reference purpose
All the best

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build better workplace relationships. Select the best option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward through chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

What is true about Agile principles?

A. Leadership over management
B. Management over leadership
C. Adaptive over prescriptive
D. Prescriptive over adaptive
E. Customer collaboration over contract negotiation
F. Contract negotiation over customer collaboration

a. B,C,E

b. A,D,F

c. A,C,E

d. B,D,F

Identify the correct statement
a. Accepting help is a sign of weakness.

b. We can be a little careless as we can apologize whenever we make a mistake. After all mistakes help us learn.

c. We need to accept help when needed. The key is to be assertive. Being honest about your weakness builds trust.

d. Ask for help even before trying something on your own. It will help you get a head start.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
a.Present accurate facts and figures.
b.Present facts and not personal
views. c.Present stereotypical

information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

Being digital gives us easy access to all kinds of information about our organization. How is data security ensured?

a. Respect confidentiality of information. Prevent disclosure of information related to colleagues or co mpetitors.

b. Give paramount importance to the individual who has ctreated the content.

c. Ensures free, easy access to employee information.

d. None of the options.

Rakesh's Team was working on implementing the functionality of "Employee Search" in an organization. The Client's request was to enable the search using Associate's "Last Name". However, the team overlook ed the requirement and developed the functionality without incorporating the client request. After the co mpletion of the development process, it was seen that the search was enabled using the "First Name" of t he associates. How differently could have Rakesh's team handled the requirements?

a. Rakesh's team should have demanded more detailed documentation from the client. The weak docu mentation process is the root cause of the issue. More documents from the client would have never cause d the issue.

b. The team should capture requirements carefully, followed by an internal discussion and a meeting w ith client to confirm on requirements before proceeding with software development

c. Since the entire development process is complete, the team can rather convince the client to accept t he module as it is.

d. Rakesh's team can also ask for an extra person day to complete the task according to the client's req uirement.

You have joined a project and you are in the training phase now. The project requires that you know the b asics of Ruby on Rails. You complete an e-learning course on the same and now you are taking the assess ment. During the assessment, a senior member of the team approaches you and asks if you can join a conf erence call instead of him. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your pre dicament. You can inform him that you would join the call after the assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come back in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason i s genuine when you talk to him while looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organizati on you can say 'no' as much as you want.

What factors should you consider before preparing a help document on the newly introduced 'search' functionality in ABC online application ?

a. Interest level of the users.
b. Gender of the users.
c. Technical knowledge of the users.
d. Experience of the users.

RiO

What is the sequence of the transition management phases

a. KT to Secondary Support to Primary Support
b. Primary Support to Secondary Support to KT
c. Secondary Support to primary support to KT
d. None of the options

After creating a Knowledge Article (KA)

a. Check and re-certify the KA at regular frequency
b. Ensure exceptions are clearly visible
c. Ensure you have used the standard template
d. All the options

Design Algorithm

Duplication of code is the root cause of most of the maintenance problems

a. TRUE
b. FALSE

Which of the following sorting algorithms in its typical implementation gives best performance when app lied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort
b. Merge Sort
c. Quick Sort
d. Bubble Sort

We use dynamic programming approach when

a. The solution has optimal substructure
b. The given problem can be reduced to the 3-SAT problem
c. It's faster than Greedy
d. We need an optimal solution

Unix

The following is the data present in a file doctors.txt used to manage the doctor's names of a hospital. pediatrician,Dr.Kiran sharma
gynecologis,Dr.Amala Krishnan
cardiologist,Dr.Kumar Sahoo
neurologist,Dr.Amith Kumar
psychiatrist,Dr.Leela Santhosh
ophthalmologist,Dr.Jathin Ram

Which of the following commands will give you an output with Dr.Kumar Sahoo replaced with Dr.Rajkumar Sahoo

a.   sed s/Dr.Kumar/Dr.Rajkumar/g doctors.txt

b. sed s/Kumar/Rajkumar/g doctors.txt

c. sed s/'Kumar'/'Rajkumar'/g doctors.txt

d. sed s/'Kumar'/'Rajkumar'/g doctorsS.txt

What will be the output of below awk script?

echo "This is how it works" | awk 'BEGIN{RS=" "}{print $0}'

a. This is
how
it
work
s

b. Thisishowitworks

c. This|is|how|it

d. This|is|how|it|wordss

Which is the command used in unix to remove the duplicate lines

a. sort -u

b. sort uniq

c. uniq

d. uniqe

The file animal.txt having following data:
1 cow
2 goat
3 dog
4 cat
5 hen
For the above file what will be the output for the 2 commands?
1. grep -o cat animal.txt
2. grep 'cat' animal.txt

a. Output of command 1: None
Output of command 2: cat

b. Output of command 1: cat
Output of command 2: None

c. Output of command 1: 4 cat
Output of command 2: caat

d. Output of command 1: 4 cat
Output of command 2: cat

Which of the given options are environment variables?

a. HOME

b. PATH

c. head

d. sort

Java UI

Which of the following attribute is used to define equal styles for elements with same class name?

a. class

b. id

c. element

d. universal

Which of the following element describing the web page?

a. heading

b. paragraph

c. list

d. All of the options

Which one is invalid in html5 forms?

a. date

b. day

c. datetime

d. month

Which of the following is a correct syntax for applying table border?

a. table, th, td { border=1px
solid black;
}

b. table, th, td {
1px solid black;
}

c. table, th, td { border:

1px solid black;
}
d. table, th, td {
border= solid black;
}

In the following syntax which is the correct one for applying border space between the cells?

a. table, th, td { border:
1px solid black;
padding: 5px;
}
table {
border-spacing:15px;
}
b. table, th, td { border:
1px solid black;
padding: 5px;
}
c. All of these are applicable

In following style, which property specifies whether the background image will not scroll with the rest of the page?

body {
background-image:
url("flowers.jpg"); background-
repeat: no-repeat; background-
attachment: fixed; background-
position: right top;
}
a. background-image: url("flowers.jpg");
b. background-repeat: no-repeat;
c. background-attachment: fixed;
d. background-position: right top;

Which one is a valid 'margin' property value?
a. dotted
b. auto
c. dashed
d. solid

Which one is not valid style definition?
a. .center { text-
align: center;
color: gREEN;

```
}
b. #center {
text-align:
center;
color: rgb(255, 99, 71);
}

c. p.center {
text-align:
center;
color: hst(9, 100%, 64%);
}

d. * {
text-align: center;
Color: rgba(255, 99, 71, 0.5);
}
```

Which of the following object definition is incorrect?

a. var person = {name:"Arun", age:30, gender:"Male"};

b. var person = {name:'Arun', age:30, gender:'M'};

c. var person = {name:'Arun', age:30, gender:'Male'};

d. var person = {name:"Arun", age:30, gender: M};

Which one is not a valid escape sequence in Javascript?

a. \b

b. \e

c. \f

d. \r

Java

Which of the following SQL query can be considered as a join?

a. Select * from Employee;

b. Select Empid,Empname from Employee;

c. Select Empid,Empname,Projectname from employee,project where employee.projectid=project.projectid;

d.   Select Empid,Empname,Projectname from employee ;

SELECT ea.* FROM employee e1,employee e2
WHERE eb.name='SRIDHAR' AND ea.did=eb.did;
What type of join is this?.

a. Self join

b. Inner join

c. Left join

d. equi join

With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with "a"?

a. SELECT * FROM Persons WHERE FirstName LIKE '%a'

b. SELECT * FROM Persons WHERE FirstName='a'

c. SELECT * FROM Persons WHERE FirstName LIKE 'a%'

d. SELECT * FROM Persons WHERE FirstName='%a%'

ON UPDATE CASCADE ensures which of the following?

a. Normalization

b. Materialized Views

c. Data Integrity

d. All of the options

What will be the output of below code?Assume table FACULTY_DEMO (ID,NAME,LOCATION,EXPE RIENCE,SALARY)exists in the DB.

DECLARE

  c1 FACULTY_DEMO%ROWTYPE;

CURSOR c is SELECT * FROM FACULTY_DEMO; BEGIN

OP
EN
LO
OP

FETCH c into c1;

EXIT WHEN c%notfound;

  dbms_output.put_line(ca.ID || ' ' || ca.NAME || ' ' || ca.LOCATION); END LOOP;

CLOSE c;
  END;

a. Code wont execute due to compilation error

b. Displays ID,NAME,LOCATION columns of FACULTY_DEMO table.

c. Fetch and Displays all columns from FACULTY_DEMO table.

d. Fetches ID,NAME and LOCATION columns from faculty_demo table and displays it

Which is not a system defined exception in PLSQL?

a. INVALID_INPUT

b. CURSOR_ALREADY_OPEN

c. NO_DATA_FOUND

d. INVALID_CURSOR

What is the keyword used to force a FOR loop to decrement from the upper bound to lower bound?

a. INVERSE

b. BACK

c. REVERSE

d. None of the options

Identify whether the following statements are correct or

incorrect? NUM1:=NUM1+NUM2:=(NUM3*3);

FLAG1:=TRUE OR FALSE;

a. Correct
Incorrect

b. Incorrect Correct

c. Correct
Correct

d. Incorrect
Incorrect

What will be the output for the following?

```
public class Memo {
public static void main(String[] args)
{ int price = 20;
int tax = 10;
int total = price + (price <=35 ? 0
:tax);
System.out.println("Total:"+total);
}
}
```

a. 10

b. 20

c. 30

d. The code compiles but throws exception at runtime.

What will be the output for the

following? public class CompareNames {

public static void main(String[] args) {

String hello = new String("hello

world"); String hi = new String(hello);

```
System.out.print((hello == hi) + " " + (hello.equals(hi)));
}
}
```

a. true true
b. false true
c. false false
d. true false

What will be the output for the

following? public class DisplaySum{

```
public static void main(String[] args) {

System.out.println("Result is:"+ " "+

7+3+"5"+2);
}
}
```

a. Result is:1052
b. Result is:125
c. Result is:7352
d. The code compiles but throws exception at runtime.

What will be the output for the
following? public class CompareNames {
public static void main(String[] args)
{ int x = 10, y = 5;

```
boolean w = false, z =

true; x = w ? y++ : y--;

w = !z;

System.out.print((x+y)+" "+(w ? 5 : 10));

}
}
```

a. 9 10
b. 10 9
c. 10 10
d. 9 9

Which among the following is/are invalid declaration(s)

A. int a;int b=0;

B.int a,b=5;

C.int a=0,b=0;

D. int a, double b=5;

a. A
b. B
c. C
d. D

Consider the following table

Employee (EmployeeID,EmployeeName ,PhoneNumber,Address,City,Country)

Command to add a constraint so that all entries made in table are for country

'India'

a. ALTER TABLE Employee ADD CHECK (Country=='India');
b. ALTER TABLE Employee ADD CONSTRAINT CheckConstraintName CHECK (Country=='India');
c. ALTER TABLE Employee ADD CONSTRAINT defau_Country DEFAULT 'India' FOR Country;
d. All the options

Choose your observations in the given block.

DECLARE

    emp_id

        emp.empno%TY

PE; BEGIN

    UPDATE emp SET ... WHERE empno = emp_id;

    SAVEPOINT spt_delete;

    DELETE FROM emp WHERE …

SAVEPOINT spt_insert;

INSERT INTO emp VALUES (emp_id, ...);

SAVEPOINT spt_update;

UPDATE emp_new SET ... WHERE empno =

emp_id; EXCEPTION

WHEN DUP_VAL_ON_INDEX THEN

ROLLBACK TO spt_insert;

END;

a. When you roll back to a savepoint – spt_insert, any savepoints marked after that savepoint are erase d.
b. The savepoint – spt_insert to which you roll back is not erased.
c. A simple rollback without any savepoint, erases all savepoints.
d. Rollback names and marks the current point in the processing of a transaction.

Python

An object can contain:
a. Only Variables
b. Only Methods
c. Variables and Methods
d. None of the options.

How can you include a module in Python?
a. Include
b. Import
c. Require
d. All options are correct.

How do you create a variable "a" that is equal to 5?
a. int a = 2
b. var a = 5
c. a= 5
d. All options are correct.

What is the output of below Python Code?

```
salary = 9000

def printSalary():

salary = 11000

print("Salary:", salary)

printSalary();

print("Salary:", salary)
```
a. ('Salary:', 11000)
b. ('Salary:', 11000)
('Salary:', 9000)
c. ('Salary:', 9000)
d. All options are correct.

Choose the correct options for database index
a. A database index improves performance
b. The users cannot see the indexes
c. Indexes takes additional disk space
d. All of the options

A UNIQUE constraint can be either a column constraint or a table constraint.
a. FALSE
b. TRUE

What the following query will do?

DELETE * FROM books WHERE bookid=4;
a. The query is syntactically wrong
b. Query will delete the book whose bookid is 4
c. Query will delete all the books
d. None of the options

Consider the folowing Employee table

Name   Null   Type
---------------- -------------------- -------------------------------
EMPID   NOT NULL

NUMBER(10)

EMPNAME NOT NULL VARCHAR2(50)

BRANCHID   NOT NULL NUMBER(10)

Choose the query which will increase the empname column size to VARCHAR2(200)

a. ALTER TABLE Employee INCREASE empname varchar2(200);

b. The query is syntactically wrong

c. ALTER TABLE Employee MODIFY empname varchar2(200);

d. ALTER TABLE Employee CHANGE empname varchar2(200);

SELECT EmployeeName FROM Employee order by EmployeeId Desc LIMIT 1;

a. Query will return the first EmployeeName from Employee table ordered by EmployeeId in descending order

b. Query will return the last EmployeeName from Employee table ordered by EmployeeId in descending order

c. The query is syntactically wrong

d. Query will not return any rows

Consider the folowing table

CourseIdCourseNameNoofParticipant

s

12 C 100
14 C++ 500
24 Java 5000

Which subquery will be used to display records whose noofparticipants are more than the average

a. SELECT AVG(NoofParticipants) FROM COURSE

b. select * from COURSE where NoofParticipants>NoofParticipants/3;

c. select * from COURSE where NoofParticipants >(SELECT AVG(NoofParticipants) FROM COURSE);

d. None of the options

Which of the following keyword is NOT available in MySQL:

a. REVOKE

b. LIKE

c. JOIN

d. FETCH

COALESCE() return the first non null argument

a. TRUE

b. FALSE

Consider the following table structure.

SQL>desc
employee; Name
Null? Type

------------ --------- --------------

EMPID NOT NULL
NUMBER EMPNAME
VARCHAR2(50) BRANCH
VARCHAR2(20)

You want to delete the employees whose branch is not CHN and HYD

Which query will do that?

a. drop table Employee
b. delete employee where BRANCH !='CHN' and BRANCH != 'HYD';
c. Delete * from employee where BRANCH NOT IN ('CHN' and 'HYD');
d. delete from employee where BRANCH NOT IN ('CHN','HYD');

KYT

What are the 5 TCS Values

a. Leading change, Integrity, Respect for the individual, Team work, Learning and sharing
b. Leading change, Integrity, Respect for the individual, Excellence, Learning and sharing
c. Creativity, Integrity, Respect for the individual, Excellence, Learning and sharing
d. Diversity, Integrity, Respect for the individual, Excellence, Learning and sharing

New area of Technology which deals with collecting data from all types of devices

a. Big Data
b. Internet of Things
c. Twitter
d. Facebook

Some challenges in Artificial Intelligence are

a. Cost
b. Technology
c. Common Sense
d. All of the options

Science of Machine Learning where a user gets positive and negative feedbacks is called as

a. Reinforcement Learning

b. Regression

c. Classification

d. None of the options

Worlds biggest source of Big Data a. Space Research

b. Oceanic Research

c. Traditional systems

d. Mobile Phones

BizSkills

Which of the following statements are true? a. Always listen to reply and not to understand.

b. Always listen to interrupt and reply.

c. Always listen to understand with an intent to reply.

d. Always listen to reply and justify your views.

The CIBI Bank requested TCS to upgrade their systems worldwide and to digitize 80% of their workflow. TCS not only completed the given work on time but also provided IT training sessions for the bank empl oyees to get accustomed to the upgrades. What is this service termed as ?

a. Keeping commitments

b. Robotic service

c. Value-added service

d. Systematic service

Which of the following is NOT expected of a good listener?

a. Listening attentively

b. Maintaining eye contact

c. Seeking clarifications

d. Interrupting the speaker

Identify the correct statement a. Accepting help is a sign of weakness.

b. We can be a little careless as we can apologize whenever we make a mistake. After all mistakes hel p us learn.

c. We need to accept help when needed. The key is to be assertive. Being honest about your weakness builds trust.

d. Ask for help even before trying something on your own. It will help you get a head start.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
a.Present accurate facts and figures.
b.Present facts and not personal
views. c.Present stereotypical
information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

You are a team lead. During an initial meeting, you realise that you need 3 additional resources to work on the project. How will you communicate the same effectively in a Project Status Report?

a. Having 3 more associates in our team would help us complete the task effectively.

b. We have less number of associates in our team to complete the project work so if we are provided with 3 more associates, we would be able to complete the task.

c. We are facing a shortage of manpower for the task. Hence we need 3 more resources.

d. We need 3 associates to join our team. This would help us complete the task effectively.

The Art of Assertion requires an equal balance of which of the following elements?

A. Tone
B. Confidence
C. Posture
D. Body language
E. Appearance
F. Expressions
G. Language

a. A,B,C,D,E

b. A,B,C,D,F,G

c. B,D,E,G

d. All of the options

General best practices for Telephone etiquette include:

A. Assuming proper posture
B. Speaking clearly & slowly
C. Smiling when speaking
D. Giving the call your full attention
E. Avoiding confusing language
F. Speaking loudly

a. All of the options
b. A,B,C,D,E
c. B,D,E,F
d. A,B,C

What factors should you consider before preparing a help document on the newly introduced 'search' func tionality in ABC online application ?

a. Interest level of the users.
b. Gender of the users.
c. Technical knowledge of the users.
d. Experience of the users.

RiO

During a crisis, do not cascade incorrect updates to the customer and other associates. Always wait for co nfirmation from the

a. BCP Manager
b. DR team
c. Crisis Management Team
d. None of the options

Before accessing customer system what are the important steps to be completed by recruits

a. Reading and Signing A non-disclosure agreement (NDA)
b. Complete Background Checks(BGC) if required.
c. Both the options

Design Algorithm

Which of the following standard algorithms is not Dynamic Programming based

a. Bellman–Ford Algorithm for single source shortest path
b. Floyd Warshall Algorithm for all pairs shortest paths
c. 0-1 Knapsack problem
d. Prim's Minimum Spanning Tree

Which of the following sorting algorithms in its typical implementation gives best performance when app lied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort
b. Merge Sort
c. Quick Sort
d. Bubble Sort

which is the fastest sorting algorithm

a. Bubble sort

b. Merge Sort

c. Heap Sort

d. Selection sort

Unix

Given the command awk 'BEGIN{FS=" ";s=0}{s=s+$2}END{print s}' file . What will be the expected o utput?

a. Sum of first column of input file

b. Sum of second column of input file

c. Average of first column of input file

d. Average of second column of input file

A file is having file permission of 754 in octal value(numeric mode). What will be the symbolic value of t he same permission for that file?

a. -rwxr-xr--

b. -rw--w-r-x

c. -rwxr-xr-x

d. -rwxrw-r--

What will be the command to change the access time of a file to 12:10 PM on 28th February 1999?

a. touch –a 2802991210 filename

b. touch –a 1210280299 filename

c. touch –a 0228121099 filename

d. touch –a 9902281210 filename

Select the correct command to search the pattern "Hello UNIX" in a file ignoring case.

a. grep -i "Hello UNIX" filename

b. grep -c "Hello UNIX" filename

c. grep -i filename 'Hello UNIX'

d. grep -c filename 'Hello UNIX'

grep "Tata.*Services$" *

What would be the output of the above command?

a. It will display the filename and the pattern ("Tata Consultancy Services Limited"), if the pattern is f ound in any file

b. It will display the filename and the pattern ("Tata Motors Limited"), if the pattern is found in any fi le

c. It will display the filename and the lines ending with the pattern("Tata Consultancy Services") in th e

file

d. It will display the filename and the lines ending with the pattern ("Tata Capital services") in the file

SQL

which statement selects the highest grade for each of the cities of the customers. customer_id cust_name city grade salesman_id

3002 Nick New York 100 5001
3007 Brad New York 200 5001

a. SELECT MAX(grade)
FROM customer
GROUP BY city;

b. SELECT city,MAX(grade)
FROM customer
GROUP BY grade;

c. SELECT city,MAX(grade)
FROM customer
GROUP BY city,grade ;

d. SELECT city,MAX(grade)
FROM customer
GROUP BY city;

CUSTOMER (
Id
FirstName

LastName
City
Country
Phone)

List the number of customers in each country, except the India, sorted high to low
Only include countries with 5 or more customers.

which statement is true?

a. SELECT COUNT(Id), Country
FROM Customer
WHERE Country <> 'India'
GROUP BY Country
HAVING COUNT(Id) >= 5
ORDER BY COUNT(Id) DESC

b. SELECT COUNT(Id), Country
FROM Customer
WHERE Country <> 'India'
GROUP BY Country

HAVING COUNT(Id) >= 5
ORDER BY COUNT(Id)
ASC

c.
SELECT COUNT(Id),
Country FROM Customer
WHERE Country <>
'India' GROUP BY
Country
ORDER BY COUNT(Id) DESC HAVING COUNT(Id) >= 5

d. SELECT COUNT(Id), Country
FROM Customer
WHERE Country <>
'India' GROUP BY
Country

Which operator tests a column for no data.

a. IS Null

b. Not NULL

c. Exists

d. All of the options

A relational schema for a train reservation database is given below.
Passenger (pid, pname, age) Reservation (pid, class, tid)
Table: Passenger
pid pname age

----

0 Sachin 65

1 Rahul 66

2 Sourav 67

3 Anil 69

Table : Reservation

pid class tid

----

0 AC 8200

1 AC 8201

2 SC 8201

5 AC 8203

1 SC 8204

3 AC 8202

What pids are returned by the following SQL query for the above instance of the tables? SLECT pid
FROM Reservation ,

WHERE class 'AC'

AND EXISTS (SELECT

*

FROM Passenger

WHERE age > 65

AND

Passenger. pid = Reservation.pid)
a. 1,0
b. 1,2
c. 1,3
d. 1,5

Which Query is correct to display the commission of all the salesmen servicing customers in Paris. salesman
salesman_id name city commission

5001 James New York 0.15
5002 Nail Paris

0.13 Customer

customer_id cust_name city grade salesman_id

3002 Nick New York 100 5001
3007 Brad New York 200 5001
a. SELECT commission
FROM salesman s,customer
c WHERE c.city = 'Paris';
b. SELECT commission

FROM salesman
WHERE salesman_id
IN (SELECT
salesman_id FROM
customer WHERE city
= 'Paris');

c. SELECT commission
FROM salesman s,customer c
WHERE s.salesman_id
=c.salesman_id and c.city = 'Paris';

d. None of the options.

Java UI

Which of the following is a correct syntax for applying italic style?

a. font-family:italic;

b. font-style:italic;

c. font:italic

d. All of options

what is the output of the below code?

```
<html>
<head>
<style>
p{
color:red
;
}

#xp
{
color:green;
}
</style>
</head>
<body>

<p id="xp">Xplore Training</p>

</body>
</html>
```

a. Display 'Xplore Training' in green color

b. Display 'Xplore Training' in red color

c. Both will not work.It is difficult to identify the color

d. None of options

Which of the following is a correct syntax for applying border for a entire table ?

a.   <style>
table, th, td
{   Border:
1%
}
</style>

b. <style>
Table, {
border: 1px solid black;
}
</style>

c. <style>
table, th, td
{
border: 1px solid black;
}
</style>

d. None of options

Can we modify the attribute's value of the HTML tag dynamically?

a. Yes

b. No

Whether HTML5 will be supporting inline style for a label?

a. Yes

b. No

What is the output of the below code?
<html>
<head>
<style
> #st1
{
text-align:
center; color:
red;
}
.st2 {
text-align:
center; color:
green;
}
</style>
</head>
<body>

```
<p class="st1">Hello</p>
<p id="st2">World!</p>

</body>
</html>
```

a. Display 'Hello' in red and 'World!' in green.

b. Display 'Hello' in green and 'World!' in red.

c. Display both 'Hello' as well as 'World!' in red.

d. None of options

Which of the following is not a CSS background properties?

a. Background-colour

b. Background-image

c. Background-repeat

d. Background-attachment

What is the output of the below code?

```
<html>
<head>
<style
> a {
text-decoration: overline;
text-transform:
uppercase; text-shadow:
3px 2px red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
```

a. `<html>`
`<head>`
`<style`
`> a {`
`text-decoration: overline;`
`text-shadow: 3px 2px`
`red;`
`}`
`</style>`
`</head>`
`<body>`

```
<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
b.  <html>
<head>
<style
> a {

text-transform:
uppercase; text-shadow:
3px 2px red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>

</html>
c.  <html>
<head>
<style
> a {
text-decoration: overline;
text-transform:
uppercase; text-shadow:
3px 2px red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
```
d. None of options

Which of the following is a valid array declaration in Java Script?

a. var week = new Array{"Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"};

b. var week = new Array("Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat");

c. var week = new Array["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];

d. None of options

What is the output of the below code?

```
<html>
<body>

<p id="demo"></p>

<script>
var fruits = ["Red", "Green", "Blue", "Black"];
document.getElementById("demo").innerHTML =
fruits.toString();
</script>

</body>
</html>
```

a. HashCode

b. [Red,Green,Blue,Black]

c. Red,Green,Blue,Black

d. None of options

Java

What is wrong in the following code?

```
DECLARE

c_id := 1;

c_name customers.name%type;

c_addr

customers.address%type;

BEGIN

SELECT name, address INTO c_name, c_addr FROM customers WHERE id = c_id;

END;
```

a. You cannot use the SELECT INTO statement of SQL to assign values to PL/SQL variables.

b. The SELECT INTO statement here is wrong. It should be: SELECT c_name, c_address INTO nam e, addr

c. The WHERE statement is wrong. It should be: WHERE id := c_id;

d. The variable c_id should be declared as a type-compatible variable as −

C_id customers.id%type := 1;

Which statement is NOT correct about a PL/SQL block?

a. The declaration section starting with DECLARE keyword is a mandatory section

b. The executable section between keywords BEGIN and END is a mandatory section

c. The exception handling section starting with EXCEPTION keyword is an optional section

d. Variables are defined in the declaration section.

Which statement below is a correct example of explicit cursor creation?

a. CURSOR c_student AS SELECT id, name, marks FROM students;

b. CREATE CURSOR c_student IS SELECT id, name, marks FROM students;

c. CURSOR c_student IS SELECT id, name, marks FROM students;

d. EXPLICIT CURSOR c_student IS SELECT id, name, marks FROM students;

Variable declaration : customer_rec customer%rowtype;
How are the columns – id, name present in the customer table can be used in the PL/SQL statement?

a. customer.id,customer.name

b. customer_rec.id, customer_rec.name

c. id,name

d. None of the above.

Which of the below is a illegal modifier for class declaration?

a. public

b. abstract

c. final

d. private

What is the output for the following

code: public class Demo {

public static void main(String args[])

{

String x="HELLO";

String y="HELLO";

if(x.compareTo(y))

{

```java
System.out.println("STRINGS ARE EQUAL");

}

else
{

System.out.println("STRINGS NOT EQUAL");

}

}

}
```

a. STRINGS ARE EQUAL
b. STRINGS NOT EQUAL
c. Compilation error

--------------------- is required for compiling,executing and debugging a java program

a. JVM
b. JRE
c. JDK
d. JIT

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BEGIN

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```
System.out.println("STRINGS ARE EQUAL");

}

else

{

System.out.println("STRINGS NOT EQUAL");

}
}
}
```

a. STRINGS ARE EQUAL
b. STRINGS NOT EQUAL
c. Compilation error

---------------------- is required for compiling,executing and debugging a java program

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b. JRE
c. JDK
d. JIT

Python

What will be the output of the following Python code?

print('hello all, welcome to the Python course'.split())
a. ['hello',' ','all',',',' ','welcome',' ','to',' ','the',' ','Python',' ','course']
b. ['hello', 'all,', 'welcome', 'to', 'the', 'Python', 'course']
c. ('hello',' ','all',',',' ','welcome',' ','to',' ','the',' ','Python',' ','course')
d. ('hello', 'all,', 'welcome', 'to', 'the', 'Python', 'course')

You want to use the sqrt() function from the math module in Python. Identify the statement that will import the function from the module so that it can be used.

a. import math.sqrt
b. from math include sqrt
c. include math.sqrt
d. from math import sqrt

What will the following function do?

def func(a,b):pass

a. defines a function with the name func which does nothing

b. defines a function with the name func which takes two arguments as input and returns the value of the arguments.

c. syntax error

d. defines a function with the name func to pass the values of the arguments to another function

What will be the output of the following Python code? print(max('Python Tutorial'))

a. Error

b. y

c. T

d. Tutorial

Identify the output of the following expression: print(89//2)

a. 44

b. invalid operator used c.

1

d. 0

Identify the invalid operator for Python

a. >>

b. &

c. \\

d. none of the options

If a = 10 and b = 4, which of the following statement will produce the output as 14

a. print(a|b)

b. print(a&b)

c. print(a&&b)

d. none of the options

<=,>=,== are …. Operators in python

a. logical

b. relational

c. arithmatic

d. assignment

Identify the correct statement.

a. lists are mutable whereas tuples are immutable.

b. both lists and tuples are mutable

c. both lists and tuples are immutable

d. lists are immutable whereas tuples are mutable.

An identifier list is initialized as below:

list=(1,2,3)

What will be the output of the following
statement? type(list)

a. <class 'tuple'> or <type 'tuple'>

b. <class 'list'> or <type 'list'>

c. tuple

d. list

DOT NET

KYT

When Tata Consultancy Services established?

a. 1978

b. 1968

c. 1988

d. 1958

Drawback of Distributed computing is a. Man Power cost increased

b. Cost of computing increased

c. Complexity Reduced

d. None of the options

How many hours of video are uploaded to Youtube every minute

a. 10

b. 50

c. 80

d. 100

Computer Algorithms which determines the category of observation based on previously seen examples
i s called as

a. Linear Regression

b. Classification

c. Maturity Learning

d. Numerical regression

Which application takes Highest Maintenance cost

a. Native Application

b. Web Application

c. Composite Application

d. Hybrid Application

BizSkill

What are the stages in the IBC approach? a. Introduction, Body, Cohesion

b. Introduction, Body, Content

c. Introduction, Body, Conclusion

d. None of the options

The purpose of writing is expressed by which type of question?

a. how

b. when

c. why

d. who

The CIBI Bank requested TCS to upgrade their systems worldwide and to digitize 80% of their workflow. TCS not only completed the given work on time but also provided IT training sessions for the bank empl oyees to get accustomed to the upgrades. What is this service termed as ?

a. Keeping commitments

b. Robotic service

c. Value-added service

d. Systematic service

Select the options that may apply while responding to an angry customer's e-mail.

a. Acknowledge their frustration and restate it in your own words.

b. Align with the customer by letting them know you've heard and understood the issue.

c. Assure the customer that you will resolve the issue at the earliest.

d. All of the options

He had a Masters in Business Administration (MBA). Here MBA is :

a. Acronym

b. Abbreviation

c. Elision

d. All of the options

Stephen would be traveling home to attend his brother's wedding. What information should he exclude w hile drafting a mail prior to his leave ?

a. The reason behind taking leave.

b. The period of his absence specified by dates.

c. The details of the wedding as well as Stephen's means of travelling back.

d. An update on the current status of his work and details about the handover of the task to a fellow as sociate.

What are the elements of a Project Status Report?

a. Current status, Plan for next phase and Areas of concern.

b. Current status and Areas of concern.

c. Current status, Areas of concern, Suggestions and Plan for next week.

d. Current status, Areas of concern and Suggestions.

Rose chooses not to consult her colleagues while fixing a problem, as she is sure that they are too busy. Identify the mind trap.

a. Defending prior choices

b. Selecting supporting information

c. Trap of assumptions

d. Trap of initial ideas

Group decision is an important element in which of the following work cultures?

a. US, UK and Middle East.

b. US, UK and Australia.

c. India, Japan and Australia.

d. India, Japan and Middle East.

What factors should you consider before preparing a help document on the newly introduced 'search' func tionality in ABC online application ?

a. Interest level of the users.

b. Gender of the users.

c. Technical knowledge of the users.

d. Experience of the users.

RiO

List 3 aspects that will be at stake, if a major impact on business has occurred due to an outage

a. Sales Revenue , Brand reputation and Integrity in business

b. Brand reputation , Employee Utilization

c. Integrity in business and Sales Revenue

d. Employee Utilization,Brand Reputation and Sales Reveneue

Amazon had suffered a major outage of its Simple Storage Service, also known as S3, crippling significant portions of the web for several hours. Amazon said the S3 team was working on an issue that was slowing down its billing system. Here's what happened, according to Amazon, at 9:37 a.m. Pacific, starting the outage: "an authorized S3 team member using an established playbook executed a command which was intended to remove a small number of servers for one of the S3 subsystems that is used by the S3 billing process. Unfortunately, one of the inputs to the command was entered incorrectly and a larger set of servers was removed than intended." This has occurred due to

a. Proper knowledge transfer was missing which lead the team in distress. Lacked clarity and knowledge regarding the incident

b. Communication and escalation management as incident occurred due to wrong information being passed to the team member

c. Access management, as authorized team member inappropriately made use of his access without proper validation

d. None of the options

Design Algorithm

Actions NOT to be taken during flood of alerts is

a. Relating the incidents for quick closure.

b. Following the Hierarchical escalation.

c. Disabling the alerts.

Advantages of SOLID principles are
1. Helps design systems that are robust
2. Helps design systems that are flexible
3. Helps design systems that exhibit ease of maintenance
4. Helps design system that do not cost much to maintain

a. 1 and 2

b. 2 and 3

c. 1 , 3 and 4

d. All of the options

Developers should follow the design principles to achieve which of the following qualities

a. Extensible and Simplicity

b. Readability and Simplicity

c. Extensible , Maintainability and Readability

d. Maintainability

Java UI

What is the usage of <span> in html?

a. It is often used as a container for other HTML elements to style them with CSS

b. It is used to group inline-elements in a document

c. It is used to highlight parts of your text.

What is the correct syntax to set border colors?

a. <h1 style="border-line: 2px solid DodgerBlue;">Hello World</h1>

b. <h1 style="border: DodgerBlue;">Hello World</h1>

c. <h1 style="border: 2px solid DodgerBlue;">Hello World</h1>

d. None of the options

What is the correct syntax to apply css for the below code?
<h2 class="city">London</h2>
<p>London is the capital of England.</p>

a. .city {
background-color:
tomato; color: white;
padding: 10px;
}

b. #city {
background-color: tomato;
color: white;
padding: 10px;
}

c. city {
background-color:
tomato; color: white;
padding: 10px;
}

What is the usage of <svg> tag in html?

a. It is used to adds audio controls, like play, pause, and volume

b. It is used to draw graphics, on the fly, via scripting

c. It is used for drawing paths, boxes and graphic images etc.

How do you add a background color for Xplore <h1> elements?

a. Xplore.h1 {background-color:#FFFFFF}

b. ha.Xplore {background-color:#FFFFFF}

c. h1 {bg-color:#FFFFFF}

d. h1 {background-color:#FFFFFF}

Which of the following is not a valid style for the paragraph?

p {
color: red;
font-family: courier;

font-size: 160%;
border-style: dotted dashed solid double;
margin-right: 150px;
float: bottom;
}

a. Font-size

b. Border-style

c. float

d. Font-family

Which one is a valid style;

a. p {
//Styling
paragraph. color:
red;
text-align: center;
}

b. p {
– Styling
paragraph. color:
red;
text-align: center;
}

c. p {
/*Styling
paragraph.*/ color:
red;
text-align: center;
}

d. p {
<!--Styling paragraph.
→ color: red;
text-align: center;
}

Which among the following is not CSS background properties;

a. background-repeat

b. background-attachment

c. background-position

d. background-render

JavaScript programs are executed by the Script Engine.

a. TRUE

b. FALSE

What will be the output of the below code;

```
<html>
<body>
<p id="result"></p>

<script>
var x = myFunction(NaN, 3);
```

```
document.getElementById("result").innerHTML =
x;

function myFunction(a, b)
{ return a * b;
}
</script>

</body>
</html>
```

a. 0

b. 3

c. NaN

d. Script Error

C#

Which keyword is used to accept input from the user?

a. ReadLine

b. Readkey

c. WriteLine

d. Write

Correct output for code is?

```
static void Main(string[] args)
{
float a =
10.553f; long b
= 12L;
int c;
c = Convert.ToInt32(a + b);
Console.WriteLine(c);Correct output for code is?
```

```
static void Main(string[] args)
{
float a =
10.553f; long b
= 12L;
int c;
c = Convert.ToInt32(a + b);
Console.WriteLine(c);Correct output for code is?
```

```
static void Main(string[] args)
{
```

```
float a =
10.553f; long b
= 12L;
int c;
c = Convert.ToInt32(a + b);
Console.WriteLine(c);
```
Correct output for code is?

```
static void Main(string[] args)
{
float a =
10.553f; long b
= 12L;
int c;
c = Convert.ToInt32(a + b);
Console.WriteLine(c);
```

a. 2c.453

b. 22

c. 23

d. 2b.453

What would be the output of the following
code? class Program
```
{
static void Main(string[] args)
{
string name;
Console.Write("Welcome ");
name = "Prem";
Console.WriteLine("name");
Console.ReadLine();
}
}
```
What would be the output of the following
code? class Program
```
{
static void Main(string[] args)
{
string name;
Console.Write("Welcome ");
name = "Prem";
Console.WriteLine("name");
Console.ReadLine();
}
}
```
What would be the output of the following
code? class Program
```
{
static void Main(string[] args)
{
```

```
string name;
Console.Write("Welcome
"); name = "Prem";
Console.WriteLine("name")
; Console.ReadLine();
}
}
```

What would be the output of the following code? class Program

```
{
static void Main(string[] args)
{
string name;
Console.Write("Welcome
"); name = "Prem";
Console.WriteLine("name")
; Console.ReadLine();
}
}
```

a. Welcome Prem
b. Welcomename
c. Welcome name
d. WelcomePrem

What will be the value of i, j, k after execution of the following statements?

```
int i,
j, k; i
= 4;
j = 30;
k = 0;
k = j++ / i++;
```
What will be the value of i, j, k after execution of the following statements? int i, j, k;
```
i = 4;
j = 30;
k = 0;
k = j++ / i++;
```
What will be the value of i, j, k after execution of the following statements?

```
int i,
j, k; i
= 4;
j = 30;
k = 0;
k = j++ / i++;
```
What will be the value of i, j, k after execution of the following statements? int i, j, k;
```
i = 4;
j = 30;
k = 0;
k = j++ / i++;
```
a. 5 31 7

b. 5 31 8

c. 5 31 6

d. 4 30 7

ubyte is a 8 bit signed integer datatype.

a. TRUE

b. FALSE

What would be the output of the following
code? class Program
```
{
static void Main(string[] args)
{
int a =
10; if
(a <
20)
{
a = 20;
}
Console.WriteLine("value of a is : {0}", a);
Console.ReadLine();
}
}
```
What would be the output of the follwoing
code? class Program
```
{
static void Main(string[] args)
{
int a =
10; if
(a <
20)
{
a = 20;
}
Console.WriteLine("value of a is : {0}", a);
Console.ReadLine();
}
}
```
What would be the output of the following
code? class Program
```
{
static void Main(string[] args)
{
int a =
10; if
(a <
20)
{
a = 20;
}
```

```
Console.WriteLine("value of a is : {0}", a);
Console.ReadLine();
}
}
```

What would be the output of the follwoing code? class Program

```
{
static void Main(string[] args)
{
int a =
10; if
(a <
20)
{
a = 20;
}
Console.WriteLine("value of a is : {0}", a);
Console.ReadLine();
}
}
```

a. value of a is : 10

b. value of a is : {0}10

c. value of a is : 20

d. value of a is : {0}20

The --------keyword is used to stop any conditional statement or loop.

a. continue

b. bool

c. if

d. break

What will be the output of the C#.NET code snippet given below? static void Main(string[] args)

```
{
int i, j = 1, k;
for (i = 0; i < 5; i++)
{
k = j++ + ++j;
Console.Write(k + " ");
}
Console.ReadLine();
}
```

What will be the output of the C#.NET code snippet given below? static void Main(string[] args)

```
{
int i, j = 1, k;
for (i = 0; i < 5; i++)
{
k = j++ + ++j;
Console.Write(k + " ");
}
```

```
Console.ReadLine();
}What will be the output of the C#.NET code snippet given
below? static void Main(string[] args)
{
int i, j = 1, k;
for (i = 0; i < 5; i++)
{
k = j++ + ++j;
Console.Write(k + " ");
}
Console.ReadLine();
}What will be the output of the C#.NET code snippet given
below? static void Main(string[] args)
{
int i, j = 1, k;
for (i = 0; i < 5; i++)
{
k = j++ + ++j;
Console.Write(k + " ");
}
Console.ReadLine();
}
```

a. 8 4 16 12 20

b. 4 8 12 16 20

c. 4 8 16 32 64

d. 2 4 6 8 10

Choose the example/s for Value types

a. Struct and Enum

b. Enum and Class

c. Class and String

d. string and Enum

Which keyword is used to add an item to the list?

a. Add

b. Insert

c. AddRange

d. Take

ADO .net and web API

Which join combines all rows from both tables?

a. Inner Join

b. Left Outer Join

c. Right Outer Join

d. Cross Join

Primary key should always be auto increment

a. TRUE

b. FALSE

IN is used to check the list of matching values

a. TRUE

b. FALSE

Which of the following statement(s) is/are correct?
Which of the following statement(s) is/are correct?Which of the following statement(s) is/are correct? Which of the following statement(s) is/are correct?

a. " TRUNCATE TABLE is identical to DELETE statement without WHERE clause and both remove all rows in a table."

b. " TRUNCATE TABLE has to be used along with a WHERE clause"

c. " TRUNCATE TABLE deletes table from a database"

TRUNCATE TABLE is identical to DELETE statement without WHERE clause and both remove all row s in a table
TRUNCATE TABLE is identical to DELETE statement without WHERE clause and both remove all row s in a table

a. (1) By default, the ORDER BY clause retrieve the records in ascending order.

b. (2)The clause REVERSE ORDER BY is used to retrieve the records in reverse order.

c. (3)COUNT(*) is used to retrieve the number of columns for a table.

d. (4) More than one column can be used with the GROUP BY clause.

SQL

Disadvantages of View

a. A.Performance

b. B.Update restrictions

c. Both A and B

d. None of the options

Consider the following code snippet:

```
DataSet myDataSet = new
DataSet();
myDataAdapter.Fill(myDataSet);
```

What is the functionality of the above code segment?Consider the following code

```
snippet: DataSet myDataSet = new DataSet();
myDataAdapter.Fill(myDataSet);
```

What is the functionality of the above code segment?

a. Executes the SelectCommand and fills myDataSet with the resultant data

b. Executes the SelectCommand but does not fill myDataSet with the resultant data

c. It declares the DataSet()

d. It declares the DataAdapter

Which ADO.NET object is very fast in getting data from database?

a. Dataset

b. Data Reader

c. Data Adapter

d. Data View

_____is Used to required add parameters to stored procedure in Sql Server

a. SqlParameter

b. Parameter

c. sqlParameters

d. None of the options

Which of the following illustrates the benefit of ADO.NET?

a. Interoperability

b. It uses DataSet to represent data in memory that can store data from multiple tables and multiple so urces.

c. Disconnected data access

d. It uses only connected model

KYT

Computer Algorithms which determines the category of observation based on previously seen examples i s called as

a. Linear Regression

b. Classification

c. Maturity Learning

d. Numerical regression

When Tata Consultancy Services established?

a. 1978

b. 1968

c. 1988

d. 1971

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Advantages of Cloud Services are a. No Hardware Procurement required

b. Space for hosting equipment is not required

c. Cost for technicians who maintain Hardware

d. Security

e. All of the options

What are the problems associated with Big Data

a. Inexperience collecting data from nontraditional sources

b. Not accustomed to dealing with such large quantities of data

c. Overly complex with relatively slow systems

d. All of the options

BizSkill

Judging another person's views solely based on our own values and culture is called :

a. Centrality

b. Diversity

c. Ethnocentrism

d. Criticism

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build better workplace relationships. Select the best option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward thro ugh chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

What is true about Agile principles?

A. Leadership over management
B. Management over leadership
C. Adaptive over prescriptive
D. Prescriptive over adaptive
E. Customer collaboration over contract negotiation
F. Contract negotiation over customer collaboration

a. B,C,E

b. A,D,F

c. A,C,E

d. B,D,F

You are a team lead. During an initial meeting, you realise that you need 3 additional resources to work o n the project. How will you communicate the same effectively in a Project Status Report?

a. Having 3 more associates in our team would help us complete the task effectively.

b. We have less number of associates in our team to complete the project work so if we are provided w ith 3 more associates, we would be able to complete the task.

c. We are facing a shortage of manpower for the task. Hence we need 3 more resources.

d. We need 3 associates to join our team. This would help us complete the task effectively.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
a.Present accurate facts and
figures. b.Present facts and not
personal views. c.Present
stereotypical information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

Katherine is about to write an important e-mail to one of her stakeholders and she is NOT SURE about th e use of certain phrases. Which among the following can she make use of?
a) It is a blunder.
b) I was wondering if you could...
c) Sorry, I can't meet you. I'm busy that day.
d) I am afraid I won't be available.

a. a & b

b. b & d

c. b & c

d. a, b, c &d

You open your mail and see various emails which needs to be replied. In what sequence will you reply ?

a. Read each of them according to the order and reply one after the other.

b. Prioritize the emails based on their importance and then reply.

c. Forward the latest offers that are available in the e-commerce sites to your friends and then reply to the emails.

d. Mails will always be there, so have a coffee break with your colleagues first and send the emails lat er.

You have joined a project and you are in the training phase now. The project requires that you know

the b asics of Ruby on Rails. You complete an e-learning course on the same and now you are taking the assess ment. During the assessment, a senior member of the team approaches you and asks if you can join a conf erence call instead of him. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your pre dicament. You can inform him that you would join the call after the assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come back in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason i s genuine when you talk to him while looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organizati on you can say 'no' as much as you want.

Choose the relevant answer/s that makes the following sentence complete and unambiguous - ' I like cant een but I do not like the food'

a. I do not like the food served in the canteen, but the canteen I like.

b. The ambience of the canteen is pleasant, however the quality of food could improve.

c. I like the canteen in our office but not the food served there.

d. I am in deep disagreement with the nature of food served in the canteen, however the kind of servic es and the ambiance on offer, I have little to complain about.

RiO

Of the following which best suits the following phrase? The production logs can be shared with the conce rned team after appropriate_____.

a. Data masking

b. Review

c. Approval

d. None of the options

RiO week is celebrated to

a. bring an awareness about lifecycle of a software to all the TCSers

b. create awareness regarding software quality

c. An initiative that is aimed at improving our production support operations.

d. None of the choices are correct

Design Algorithm

Duplication of code is the root cause of most of the maintenance problems

a. 1

b. FALSE

Which of the following sorting algorithms in its typical implementation gives best performance when app lied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort
b. Merge Sort
c. Quick Sort
d. Bubble Sort

As per good programming practices it is better to____in codes.

a. minimize coupling and decrease cohesion
b. maximize coupling and increase cohesion
c. minimize coupling and increase cohesion
d. maximize coupling and decrease cohesion

Java UI

Which of the following is not a formatting element in HTML?

a. <b>
b. <p>
c. <strong>
d. <del>

What will be the out put of the below code;

```
<!DOCTYPE html>
<html>
<body>
<h1 style="font-group:verdana;">Xplore HTML</h1>
</body>
</html>
```

a. Print Xplore HTML in verdana font.
b. Print Xplore HTML in H1 with verdana font.
c. Print Xplore HTML in H1 with default font.
d. Print Xplore HTML without any formatting.

<caption> is tag used to define the table caption.

a. TRUE
b. FALSE

```
<p>Top news:</p>
<blockquote
url="https://www.thehindu.com//"> Top news
from The Hindu;

</blockquote>
```

The above code will display today's news from The Hindu in blocks.

a. TRUE

b. FALSE

Which html statement is used to emphasizing a text?

a. <mark>

b. <emph>

c. <del>

d. None of the options

```
<html>
<head>
<style>
a:link, a:visited {
background-color:
green; color: white;
padding: 14px 25px;
}

a:hover, a:active {
background-color:
red;
}
</style>
</head>
<body>

<a href="register.html" target="_blank">Register</a>

</body>
</html>
```

What will be the out put of the above code?

a. Create a button with default background color as green and on mouse over it change to red.

b. Create a link with default background color as green and on mouse over it change to red.

c. Create a link Register with default style.

d. None of options

```
ul.a {
list-type: lower-alpha;
}
```

The above style will display

a. Used to display the <ul> with circle bullets.

b. Used to display the <ul> with roman letters.

c. Used to display the <ul> with lower case alphabets.

d. None of the options

```
<html>
<head>
```

```
<style>
.center {
text-align: justify;
border: 3px solid
green;
}
</style>
</head>
<body>

<div class="center">
<p>Hello World.</p>
</div>

</body>
</html>
```

what will be the output of the above code?

a. Display Hello World in a green border with align left.

b. Display Hello World in a green border with align center.

c. Display Hello World in a green border with align right.

d. Display Hello World without any border and align center.

```
var x = 100 + 5 ** 3;
```

what will be the output of x?

a. 315

b. 225

c. 115

d. NaN

```
<html>
<body>
<script>
function saveValue(x) {
alert(x**2);
}
</script>

<div id="myDiv" style="display:none">
<input type="button" value="Click" onclick="saveValue('5');">
</div>

</body>
</html>
```

What will be the output of the code?

a. 10

b. 25

c. Script Error

d. None of options

C#

Under which namespace StringBuilder class is present?

a. System

b. System.Collections.Generic

c. System.Linq

d. System.Text

The F10 key is used to debug and run an application.

a. TRUE

b. FALSE

What is the output of the program. static void Main(string[] args)

```
{
int[] nn = new
int[5]; nn[1] =
10;
nn[2] = 20;
nn[3] = 30;
nn[4] = 40;
nn[5] = 50;
Console.WriteLine(nn[1]);
Console.ReadLine();
}
```

a. Compile Time error

b. Run time error c. 10

d. None of options

What is the output of the program below?

```
static void Main(string[] args)
{
bool flag =
false; if
(!flag)
{
Console.Write("Hello,");
}
Console.Write("Hi");
Console.ReadLine();
```

}

a. Hello,Hi

b. Hello,

c. Hi

d. None of options

What is the output of code
below? static void
Main(string[] args)
{
int a =
5; int
b =
10; int
c;

Console.WriteLine(c = a-- - ++b);
Console.WriteLine(b);
Console.ReadLine();
}

a. -7, 10

b. -5, 11

c. -6, 11

d. 15, 11

If number 1 is greater than number 2, assign the value of number1 to result, else assign the value of number 2 to result. Which expression below you will use?

a. int comparisonResult = (num1 > num2) ? num1 : num2;

b. int comparisonResult = (num1 >= num2) ? num1 : num2;

c. int comparisonResult = (num1 > num2) ? num2 : num1;

d. int comparisonResult = (num1 >= num2) ? num2 : num1;

What would be the output of the following
code? static void main(String[ ] args)
{
int
x=5
; int
y=6
;
int
z=(x!=y)?(x*y):(x+y)
;
Console.WriteLine(z)
;
Console.ReadLine();
}

a. 5

b. 6
c. 30
d. 11

--------- statement skips the current iteration of a for, while or do while loop. It causes the loop to immediately jump to the next iteration of the loop.

a. break

b. continue

c. Both the options

d. None of options

What will be the output of the following code snippet? using System;
class ContinueTest
{
public static void Main()
{
for (int i = 1; i <= 10; i++)
{
if (i
> 5)
brea
k;
Console.WriteLine(i);
}
}
}

a. 6

b. 1 2 3 4

c. 1 2 3 4 5

d. 6 7 8 9 10

Members of enum are by default

a. protected

b. private

c. public

d. internal

ADO .net and web API

Which one of the following is TRUE about DataSet ?

a. Data set contains Data Table and is a Disconnected Model

b. Cannot relate to XML

c. Data is confirmed to only one data source

d. DataSet is a Disconnected Model

For Insert,Update and Delete SQL Commands,_____method is used.

a. ExecuteDataReader

b. Execute Reader

c. Execute Nonquery

d. Execute Scalar

Which of the following is not the method of DataAdapter?

a. Fill

b. FillSchema

c. Update

d. ReadData

Filter used for grouping records

a. Group By

b. Group

c. Filter

d. Filter By

Syntax for ordering a column in ascending order

a. SELECT attribute1 FROM Table ORDER BY attribute1

b. SELECT attribute1 FROM Table ORDERBY attribute1

c. SELECT attribute1 FROM Table ORDER BY attribute1 asc

d. SELECT attribute1 FROM Table ORDERBY attribute1 asc

SQL

Identify correct syntax for creating Index

a. CREATE INDEX "index_name" ON "table_name" (column_name);

b. CREATE INDEX "table_name" ON "index_name" (column_name);

c. CREATE INDEX "table_name" ON "index_name" ;

d. CREATE INDEX "table_name" ON "index_name" (row_name);

View is a Virtual Table

a. TRUE

b. FALSE

In which two cases would you use an outer join?
a. The tables being joined have NOT NULL columns.
b. The tables being joined have only matched data.
c. The columns being joined have NULL values.
d. The tables being joined have both matched and unmatched data.

a. c and d

b. a and b

c. a and c

d. b and c

Key which needs to be set for a column so that only the data available in the Primary key column of one t able can only be entered

a. UNIQUE

b. Foreign Key

c. DEFAULT

d. CHECK

Which is true regarding indexing operation?

a. Sorts a file using a single key.

b. Sorts a file using two keys

c. Established an index for a file

d. All the options

KYT

In which year Tata Consultancy Services (TCS) becomes the first Indian software company to cross one b illion dollars in revenues?

a. 2002

b. 2003

c. 2013

d. 2004

Which is a best Mobile App when we are dealing with a Resource Intensive Application

a. Native Application

b. Web Application

c. Composite Application

d. Hybrid Application

Consumers assert that cloud computing permits businesses to bypass upfront infrastructure charges

a. TRUE

b. FALSE

Choose one option which is not a Cloud Platform

a. IBM's Blue Cloud

b. Wipro Air Cloud

c. Amazon Elastic Compute Cloud

d. Windows Azure Services Platform

Big Data Analytics on Genomic Medicine will help in prediction of Genetic Diseases

a. TRUE
b. FALSE

BizSkill

Which of the following can make or break a presentation ?

a. Non-verbal communication and tone

b. Style of presentation &use of jargons

c. Audience Orientation

d. All of the options

Which of the following statements is true? a. Downward flow of communication is when the speaker uses a condescending tone.

b. Downward flow of communication refers to communication between peers.

c. Downward flow of communication is when information flows from the supervisor to the subordinat e.

d. Downward flow of communication is when someone is explaining a concept in response to a questi on.

You have a great idea for your team which will make the application 40% faster. How will you persuade your team ?

a. You need to persuade the manager and not the team.

b. Make the others think about your point. Let them participate in the discussion before the decision. B e open to their queries.

c. You need not have a discussion as this is definitely going to benefit the team. Send an email asking t hem to incorporate your idea

d. Tell them it is your birthday and then share the idea. They cannot say no on your Birthday.

What is Minutes of the Meeting (MoM) ? a. MoM is a document that contains all the points discussed during a meeting which can be referred w henever needed.

b. MOM is a document which contains a detailed report of statements made by the host

c. MoM is a document that contains the report of the project which was discussed in the meeting.

d. MoM is a document that contains the status of the project after having a discussion with the client.

Which corporate culture is better, a task-oriented or relationship-oriented ?

a. Task oriented is better because it is more efficient as people focus on tasks and not the relationships.

b. Relationship-oriented culture is better because it enables trust which in turn leads to collaboration.

c. Both corporate cultures have their downsides, so every company needs to have a mix of both.

d. Corporate culture doesn't have to be better than the other. It is the outworking of tradition, values an d history of a place.

What are the main features offered in the mail application apart from e-mail?
a) Schedule meetings and appointments.
b) Invite stakeholders for a meeting.
c) Accept/ decline an invitation.

d) Set reminders to attend meetings.

a. a,b & c

b. b, c & d

c. a, b, c & d

d. None of the options

How should you gather and share requirements for a project ?

a. Verbal specification of requirements alone is insufficient.

b. The requirements should be sent through an email.

c. The email should also have the relevant stakeholders in CC.

d. All of the options

What should you do when you interact with people from other cultures which are different than yours.

a. Treat them with respect as they are superior to you. See what you need to change in your own cultur e so that you are able to be equal to them.

b. Treat them with respect if they are your clients. As we need to do business with various people, we need to act respectful towards other cultures so that they are not offended.

c. Treat them with respect. Learn about their culture, so that you are able to work in an efficient mann er with them. Learning about their culture will help you avoid blunders.

d. Treat them with respect. Teach them your culture so that they are able to understand you in a better way. Take every chance to reinforce the superiority of your culture.

It is the final client demo of Payroll Management System. Aman, who is responsible to make the presenta tion is on an emergency leave. What can be done to handle the situation ?

a. Cancel the day's schedule and plan for the same on a later date when Aman is available because he can give the best presentation

b. The team avoids involvement because it is the team manager's responsibility to talk to the client and seek an alternative for the demonstration scheduled for the day.

c. The team members can connect with Aman who is on leave, and ask him/her to manage to come to work and give the demonstration as it is urgent.

d. Team member who is next in charge can hold a brief discussion with Aman and proceed with the de mo. Only under unavoidable circumstances, it is ok to buy-in a day from the client.

What is technical writing?

a. Technical writing provides direction, instruction, or explanation on a particular subject.

b. The purpose of technical writing is to entertain and inform.

c. Technical writing results in accurate information geared to specifically targeted audiences.

d. All of the options

RiO

RiO week is celebrated to

a. bring an awareness about lifecycle of a software to all the TCSers

b. create awareness regarding software quality

c. An initiative that is aimed at improving our production support operations.

d. None of the options

Name the activity that is conducted frequently to ensure project has a strong backup plan that will help pr oject thrive during a disaster

a. Evaluation of remediation plan

b. Mock BCP drills

c. Disaster management

d. Event management

Design Algorithm

One should avoid GOTO in Structured Programming - State true/false.

a. TRUE

b. FALSE

According to KISS Design Principle, we should use features like frameworks, APIs only when there are p erceptible benefits to the problem we are solving.

a. TRUE

b. FALSE

What is Single Responsibility Principle

a. One person gets one responsibility

b. One class should perform a single task

c. Do One Thing At all levels

d. None of the options

Unix

Which symbol will be used with grep command to match the pattern pat at the beginning of a line?

a. ^pat

b. pat^

c. $pat

d. pat$

The user u123456 logged in and performed the following sequence of command. User's home directory i s /home/u123456. What will be the output of the last command?
$ cd project/module1
$ pwd

a. /home/u123456/project/module1

b. project/module1

c. ~/project/module1

d. /usr/u123456/project/module1

Which code will correctly calculate the newsal based on the years
mentioned Input file is as below
NameOfEmployee-age-YearOfJoining. The shell takes 2 inputs-file name and Name of Employee.
Delim iter used in the input file is -.

a. #!/bin/sh

x=$1

y=$2
if [-f

$1]

then

z=$(grep $2 $1|cut -d '-'

-f3) echo $z

case "$z" in

"1990") newsal=`expr$(grep $2 $1|cut -d '|' -f5) +

200` "2000") newsal=`expr$(grep $2 $1|cut -d '|' -

f5) + 100` "2005") newsal=`expr$(grep $2 $1|cut -

d '|' -f5) + 500`

;;

e

s

a

c

f

i

b. #!/bin/sh

x=$1

```
y=$2

if [ -f

$1 ]

then

z=$(grep $2 $1|cut -d '-'

-f3) echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +

2000` "2000") newsal=`expr $(grep $2 $1|cut -d '|' -

f5) + 1000` "2005") newsal=`expr $(grep $2 $1|cut -

d '|' -f5) + 500`

;;

esac

fi
```

c. #!/bin/sh

```
x=$1

y=$2

if [ -f

$1 ]

then

z=$(grep $2 $1|cut -d '-'

-f3) echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' +f5)

+2000` "2000") newsal=`expr $(grep $2 $1|cut -d '|'
```

-f5) +1000` "2005") newsal=`expr $(grep $2 $1|cut -

d '|' -f5) +500`

;;

e

s

a

c

f

i

d. #!/bin/sh

x=$1

y=$2

if [-f

$1]

then

z=$(grep $2 $1|cut -d '-'

-f3) echo $z

case "$z" in

"1990") newsal=`expr $(grep $2 $1|cut -d '|' -f5)

+2000` "2000") newsal=`expr $(grep $2 $1|cut -d '|'

-f5) +10`

"2005") newsal=`expr $(grep $2 $1|cut -d '|' -f5) +500`

;;

e

s

a

c

f

i

Which command will delete the lines containing the pattern 'this' from the file?

a. delete -f this file

b. SED /this-/d file

c. Sed /'this'/d file

d. sed /this/d file

Assuming the files fileA, fileB, fileAB, fileBC and fileABC, exist in a directory testDir, which files will b e listed if we use the following command

$ls testDir|grep file[AB]?

a. file A

b. file B

c. file ABC

d. file BC

SQL

A table containing employee have some faulty records .ie the year of joining(YOJ) was incorrectly entere d for employee ids between 20 and 100. Choose from below the right sql query to correct the column yea r of joining (YOJ)as 201e.

a. update table Employees set YOJ=2015;

b. update Employees set YOJ=2015 where id between (20,100);

c. update Employees set YOJ=2015 where id>=20 and id<=100;

d. alter table employees add YOJ=2015 where id>=20 and id<=100;

Look at the below SQL join and select the type of join

select e.ename as employee m.ename as manager from employees m JOIN employees e ON e.mgr = m.e mpno
where e.bdate > date '1965-01-01' order by employee;

a. Self join

b. Inner join

c. Cross join

d. Outer join

Which of the following way or ways before is/are correct to insert DATE in a table?

a. insert into Employee(Start_Date) values ('05-FEB-2005')

b. insert into Employee(Start_Date) values ('FEB-05-2005')

c. insert into Employee(Start_Date) values ('2005-05-FEB')

d. None of the Options

Consider the following set of relations

EMP (

emp_no,emp_name,dept_no,salary)

DEPT (dept_no,dept_name,location)

Write SQL query for the following

Find all the employees whose departments are located in 'Mumbai' and salary is greater than Rs. 20,000.

a. select emp_name from dept where dept_no and location='Mumbai';

b. select emp_name from emp where salary > 20,000 and dept_no in (select dept_no from dept where l ocation = 'Mumbai');

c. select dept_no ,count(emp_no) from emp where salary > 50,000 group by dept_no;

d. update table emp where emp_name='Mumbai';

Identify the SQL queries which shows correct group by and having usage

a. SELECT empa.LastName, COUNT(orda.OrderID) FROM Orders
ord1 INNER JOIN Employees emp1
ON
Orda.EmployeeID=empa.EmployeeID
GROUP BY LastName
HAVING COUNT(orda.OrderID) > 10

b. SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders
ord INNER JOIN Employees emp
ON
Ord.EmployeeID=emp.EmployeeID
GROUP BY LastName
HAVING COUNT(ord.OrderID) > 10

c. SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders
ord INNER JOIN Employees emp
ON Ord.EmployeeID=emp.EmployeeID
GROUP BY
LastName,COUNT(ord.OrderID)
HAVING COUNT(ord.OrderID) > 10

d. SELECT emp.LastName, COUNT(ord.OrderID) FROM Orders
ord INNER JOIN Employees emp
ON Ord.EmployeeID=emp.EmployeeID
GROUP BY
LastName,COUNT(ord.OrderID)

HAVING (ord.OrderID) > 10

PLSQL

What will happen when the code is executed?

```
DECLARE

    -- Global variables

    employeeId number :=

    95;

BEGIN
    dbms_output.put_line('number: ' || employeeId);

    DECLARE

        -- Local variables

        employeeId    number :=

        195;

    BEGIN

        dbms_output.put_line('num: ' || employeeId);

    END;

END;
```

a. It won't execute, it has syntax error

b. It will print num: 95

Num: 195

c. It will print

num: 95

Num: 95

d. It will print

Num: 195

Which of the following is not true about PL/SQL cursors?

a. A cursor is a view on a table.

b. A cursor holds the rows (one or more) returned by a SQL statement.

c. The set of rows the cursor holds is referred to as the active set.

d. None of the options

What will be the output of the following code snippet?

DECLARE

a number(3) :=

100;   b

number(3)   :=

200; BEGIN

IF(a = 100)

THEN IF(b <

200) THEN

dbms_output.put_lin

e(b); END IF;

END IF;

dbms_output.put_lin

e(a); END;

a. It has syntax error, so there will not be any
output. b. 200

c. 200, 100

d. 100

The following code tries to fetch some information from all the rows in a table named customers for use in a PL/SQL block. What is wrong in the following code?

DECLARE

cid customers.id%type;

cname

customers.name%type;

caddr customers.address%type;

CURSOR c1 is SELECT id, name, address FROM

customers; BEGIN

LOOP

FETCH c1 into c_id, c_name,

c_addr; EXIT WHEN

c1%notfound;

dbms_output.put_line(cid || ' ' || cname || ' ' ||

caddr); END LOOP;

CLOSE

c1;

END;

a. It need not use a cursor.
b. The cursor is not opened.
c. It will not print information from all the rows.
d. There is nothing wrong in the code.

A cursor for loop performs the following operations implicitly. Select the appropriate options
a. Open the cursor
b. fetch the rows
c. update the table
d. close the cursor

Java UI

Which of the following is a correct syntax for grouping selectors in CSS?
a.
h2,h3
{

color:blue;

font-
size:120px;

font-
family:italic;

}

b.
#h2;h3

{

color:blue;

font-
size:120px;

font-
family:italic;

}

c.
hb.h3

{

color:blue;

font-
size:120px;

font-
family:italic;

}

Whether a single text link point to two different web pages at a same time?

a. Yes

b. No

What is the default value for checkbox control

a. on

b. off

.Which of the following is creating multi line input control?

a. input

b. text

c. textarea

d. textline

Which of the following syntax is correct?

a. p{color;red;text-align;right;}

b. p{color=red;text-align=right}

c. p{color:red;text-align:right;}

d. p{color:red;text-align:right}

Which of the following is not valid style?

a. p {

margin: collapse;
}
b. p {
margin:
inherit;
}
c. p {
margin: 25px 50px;
}
d. p {
margin:
25px;
}

```
<html>
<head>
<st
yle
>
div
p {
background-color: green;
}
</style>
</head>
<body>

<div>
<p>Para1</p>

<p>Para2</p>
<section><p>Para3</p></section>
</div>

<p>Para4</p>
<p>Para5</p>

</body>
</html>
```

What will be the output of the above code?

a. Para1, Para2, Para4, Para5 will display in green back ground

b. Para1, Para2 will display in green back

ground c.
Para4, Para5 will display in green back ground

d. Para1, Para2, Para3 will display in green back ground

Which of the following is not a value for height and width properties;

a. auto

b. absolute

c. length

d. initial

We can write into an HTML element using the following;

a. document.write()

b. innerHTML

c. window.alert()

d. console.log()

What will be the output of the below code;

```
<!DOCTYPE html>
<html>
<body>

<p id="demo"></p>

<script>
var employee = {empNo:"1001", name:"Rajeev", designation:"SSE"};

document.getElementById("demo").innerHTML = employee;
</script>

</body>
</html>
```

a. 1001,Rajeev,SSE

b. empNo:"1001", name:"Rajeev", designation:"SSE"

c. [object Object]

d. Script error

Java

What will be the output of the

following? public class Test {

private static int start

= 1; int stop = 30;

public static void main(String[]

args) { Test tolls = new Test();

int pause = 20, stop = 40;

System.out.print(pause + tolls.stop +

tolls.start);

}

}

a. The code does not compile due to line 6
b. The code does not compile due to line

7 c. 61
d. 51

What will be the output of the

following? public class Sprint {

static int start = 5;
final int end;

public void run(int distance)

{

System.out.print(end+start+

" ");

System.out.print(distance);

}

public static void main(String...

start) { Sprint athlete=new

Sprint(); athlete.run(5);

}
}

a. 10 5
b. 5 5
c. The code does not compile due to line 3
d. The code does not compile due to line 5
e. The code does not compile due to line 4

From the following variable types , which variable is in always in scope for the entire program?

a. Local variable
b. Class variable
c. Instance variable

d. All of the options

Which of the following is invalid as the first line of a Java file?

a. import app.*;

b. package app;

c. static int start=1

d. //App Manager

What will be the output of the

following? public class Sprint {

static int start

= 5; final int

end;

public Sprint(int

x) { x = 7.0;

end = x;

}

public void run(int distance)

{

System.out.print(start+end+

" ");

System.out.print(distance);

}

public static void main(String[]

start) { Sprint athlete=new

Sprint(6); athlete.run(5);

}

}

a. 12 5

b. 11 5

c. The code does not compile due to line 3

d. The code does not compile due to line 5

KYT

What are the 5 TCS Values

a. Leading change, Integrity, Respect for the individual, Team work, Learning and sharing

b. Leading change, Integrity, Respect for the individual, Excellence, Learning and sharing

c. Creativity, Integrity, Respect for the individual, Excellence, Learning and sharing

d. Diversity, Integrity, Respect for the individual, Excellence, Learning and sharing

New area of Technology which deals with collecting data from all types of devices

a. Big Data

b. Internet of Things

c. Twitter

d. Facebook

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Science of Machine Learning where a user gets positive and negative feedbacks is called as

a. Reinforcement Learning

b. Regression

c. Classification

d. None of the options

Worlds biggest source of Big Data

a. Space Research

b. Oceanic Research

c. Traditional systems

d. Mobile Phones

BizSkill

Which of the following statements are true?

a. Always listen to reply and not to understand.

b. Always listen to interrupt and reply.

c. Always listen to understand with an intent to reply.

d. Always listen to reply and justify your views.

The CIBI Bank requested TCS to upgrade their systems worldwide and to digitize 80% of their workflow. TCS not only completed the given work on time but also provided IT training sessions for the bank empl oyees to get accustomed to the upgrades. What is this service termed as ?

a. Keeping commitments

b. Robotic service

c. Value-added service

d. Systematic service

Which of the following is NOT expected of a good listener?

a. Listening attentively

b. Maintaining eye contact

c. Seeking clarifications

d. Interrupting the speaker

Identify the correct statement

a. Accepting help is a sign of weakness.

b. We can be a little careless as we can apologize whenever we make a mistake. After all mistakes hel p us learn.

c. We need to accept help when needed. The key is to be assertive. Being honest about your weakness builds trust.

d. Ask for help even before trying something on your own. It will help you get a head start.

What all details should be provided in the signature of an e-mail? Choose the best options.
a) Name & role
b) Phone & e-mail ID
c) Personal address
d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:
1.Present accurate facts and
figures. b.Present facts and not
personal views. c.Present
stereotypical information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

You are a team lead. During an initial meeting, you realise that you need 3 additional resources to work on the project. How will you communicate the same effectively in a Project Status Report?

a. Having 3 more associates in our team would help us complete the task effectively.

b. We have less number of associates in our team to complete the project work so if we are provided

with 3 more associates, we would be able to complete the task.

c. We are facing a shortage of manpower for the task. Hence we need 3 more resources.

d. We need 3 associates to join our team. This would help us complete the task effectively.

The Art of Assertion requires an equal balance of which of the following elements?

A. Tone
B. Confidence
C. Posture
D. Body language
E. Appearance
F. Expressions
G. Language

a. A,B,C,D,E

b. A,B,C,D,F,G

c. B,D,E,G

d. All of the options

General best practices for Telephone etiquette include:

A. Assuming proper posture
B. Speaking clearly & slowly
C. Smiling when speaking
D. Giving the call your full attention
E. Avoiding confusing language
F. Speaking loudly

a. All the options

b. A,B,C,D,E

c. B,D,E,F

d. A,B,C

What factors should you consider before preparing a help document on the newly introduced 'search' functionality in ABC online application ?

a. Interest level of the users.

b. Gender of the users.

c. Technical knowledge of the users.

d. Experience of the users.

RiO

During a crisis, do not cascade incorrect updates to the customer and other associates. Always wait for confirmation from the

a. BCP Manager

b. DR team

c. Crisis Management Team

d. None of the options

Before accessing customer system what are the important steps to be completed by recruits

a. Reading and Signing A non-disclosure agreement (NDA)
b. Complete Background Checks(BGC) if required.
c. Both the options

Design Algorithm

Which of the following standard algorithms is not Dynamic Programming based

a. Bellman–Ford Algorithm for single source shortest path
b. Floyd Warshall Algorithm for all pairs shortest paths
c. 0-1 Knapsack problem
d. Prim's Minimum Spanning Tree

Which of the following sorting algorithms in its typical implementation gives best performance when app lied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort
b. Merge Sort
c. Quick Sort
d. Bubble Sort

which is the fastest sorting algorithm among

a. Bubble sort
b. Merge Sort
c. Heap Sort
d. Selection sort

Unix

Given the command awk 'BEGIN{FS=" ";s=0}{s=s+$2}END{print s}' file . What will be the expected o utput?

a. Sum of first column of input file
b. Sum of second column of input file
c. Average of first column of input file
d. Average of second column of input file

A file is having file permission of 754 in octal value(numeric mode). What will be the symbolic value of t he same permission for that file?

a. -rwxr-xr--
b. -rw--w-r-x
c. -rwxr-xr-x
d. -rwxrw-r--

What will be the command to change the access time of a file to 12:10 PM on 28th February 1999?

a. touch –a 2802991210 filename
b. touch –a 1210280299 filename
c. touch –a 0228121099 filename

d. touch –a 9902281210 filename

Select the correct command to search the pattern "Hello UNIX" in a file ignoring case.

a. grep -i "Hello UNIX" filename

b. grep -c "Hello UNIX" filename

c. grep -i filename 'Hello UNIX'

d. grep -c filename 'Hello UNIX'

grep "Tata.*Services$" *

What would be the output of the above command?

a. It will display the filename and the pattern ("Tata Consultancy Services Limited"), if the pattern is f ound in any file

b. It will display the filename and the pattern ("Tata Motors Limited"), if the pattern is found in any fi le

c. It will display the filename and the lines ending with the pattern("Tata Consultancy Services") in th e file

d.

It will display the filename and the lines ending with the pattern ("Tata Capital services") in the file

SQL

which statement selects the highest grade for each of the cities of the customers. customer_id cust_name city grade salesman_id

3002 Nick New York 100 5001
3007 Brad New York 200 5001

a. SELECT
MAX(grade) FROM
customer
GROUP BY city;

b. SELECT
city,MAX(grade) FROM
customer
GROUP BY grade;

c. SELECT
city,MAX(grade) FROM
customer
GROUP BY city,grade ;

d. SELECT
city,MAX(grade) FROM
customer
GROUP BY city;

CUSTOMER (
Id

FirstN
ame
LastN
ame
City
Count
ry
Phone
)

List the number of customers in each country, except the India, sorted high to low Only include countries with 5 or more customers.

which statement is true?

a. SELECT COUNT(Id), Country FROM Customer WHERE Country <> 'India' GROUP BY Country HAVING COUNT(Id) >= 5 ORDER BY COUNT(Id) DESC

b. SELECT COUNT(Id), Country FROM Customer WHERE Country <> 'India' GROUP BY Country HAVING COUNT(Id) >= 5 ORDER BY COUNT(Id) ASC

c. SELECT COUNT(Id), Country FROM Customer WHERE Country <> 'India' GROUP BY Country ORDER BY COUNT(Id) DESC HAVING COUNT(Id) >= 5

d. SELECT COUNT(Id), Country FROM Customer WHERE Country <> 'India' GROUP BY Country

Which operator tests a column for no data.

a. IS Null

b. Not NULL

c. Exists

d. All of the options

A relational schema for a train reservation database is given below.
Passenger (pid, pname, age) Reservation (pid, class, tid)

Table:
Passenger pid
pname age

----

0 Sachin 65

1 Rahul 66

2 Sourav 67

3 Anil 69

Table :

Reservation pid

class tid

----

0 AC 8200

1 AC 8201

2 SC 8201

5 AC 8203

1 SC 8204

3 AC 8202

What pids are returned by the following SQL query for the above instance of the
tables? SLECT pid
FROM Reservation ,

WHERE class 'AC'

AND EXISTS

(SELECT *

FROM Passenger

WHERE age > 65

AND

Passenger. pid = Reservation.pid)

a. 1,0
b. 1,2
c. 1,3
d. 1,5

Which Query is correct to display the commission of all the salesmen servicing customers in Paris. salesman
salesman_id name city commission

5001 James New York 0.15
5002 Nail Paris

0.13 Customer

customer_id cust_name city grade salesman_id
-
3002 Nick New York 100 5001
3007 Brad New York 200 5001

a. SELECT commission FROM salesman s,customer c WHERE c.city = 'Paris';
b. SELECT commission FROM salesman WHERE salesman_id IN (SELECT salesman_id FROM customer WHERE city = 'Paris');
c. SELECT commission FROM salesman s,customer c WHERE s.salesman_id =c.salesman_id and c.city = 'Paris';
d. None of the options.

PLSQL

What is wrong in the following code?

DECLARE

c_id := 1;

c_name

customers.name%type;

c_addr

customers.address%type;

BEGIN

SELECT name, address INTO c_name, c_addr FROM customers WHERE id = c_id;

END;

a. You cannot use the SELECT INTO statement of SQL to assign values to PL/SQL variables.

b. The SELECT INTO statement here is wrong. It should be: SELECT c_name, c_address INTO nam e, addr

c. The WHERE statement is wrong. It should be: WHERE id := c_id;

d. The variable c_id should be declared as a type-compatible variable as
− C_id customers.id%type := 1;

Which statement is NOT correct about a PL/SQL block?

a. The declaration section starting with DECLARE keyword is a mandatory section

b. The executable section between keywords BEGIN and END is a mandatory section

c. The exception handling section starting with EXCEPTION keyword is an optional section

d. Variables are defined in the declaration section.

Which statement below is a correct example of explicit cursor creation?

a. CURSOR c_student AS SELECT id, name, marks FROM students;

b. CREATE CURSOR c_student IS SELECT id, name, marks FROM students;

c. CURSOR c_student IS SELECT id, name, marks FROM students;

d. EXPLICIT CURSOR c_student IS SELECT id, name, marks FROM students;

Variable declaration : customer_rec customer%rowtype;
How are the columns – id, name present in the customer table can be used in the PL/SQL statement?

a. customer.id,customer.name

b. customer_rec.id, customer_rec.name

c. id,name

d. None of the options

Pick the correct variable declarations from the given list

a. empsal number := 10

b. empno number(5) NOT NULL := 2;

c. empname varchar2(15) := 'Brandson';

d. empdept CONSTANT varchar2(5) := 'HR';

Java UI

Which of the following is a correct syntax for applying italic style?

a. font-family:italic;

b. font-style:italic;

c. font:italic

d. All of options

what is the output of the below code?

```
<html>
<head>
<styl
e> p{
color:
red;
}

#xp
{
color:green;
}
</style>
</head>
<body>


<p id="xp">Xplore Training</p>

</body>
</html>
```

a. Display 'Xplore Training' in green color

b. Display 'Xplore Training' in red color

c. Both will not work.It is difficult to identify the color

d. None of options

Which of the following is a correct syntax for applying border for a entire table ?

```
a.
<style>
table,  th,
td        {
Border:
1%
}
</style>

b.
<style>
Table, {
border: 1px solid black;
}
</style>
```

c.
```
<style>
table, th,
td {
border: 1px solid black;
}
</style>
```
d. None of options

Can we modify the attribute's value of the HTML tag dynamically?

a. Yes

b. No

Whether HTML5 will be supporting inline style for a label?

a. Yes

b. No

What is the output of the below code?
```
<html>
<head>
<st
yle
>
#st
1 {
text-align:
center; color:
red;
}
.st2 {
text-align:
center; color:
green;
}
</style>
</head>
<body>
<p class="st1">Hello</p>
<p id="st2">World!</p>

</body>
</html>
```
a. Display 'Hello' in red and 'World!' in green.

b. Display 'Hello' in green and 'World!' in red.

c. Display both 'Hello' as well as 'World!' in red.

d. None of options

Which of the following is not a CSS background properties?

a. Background-colour

b. Background-image

c. Background-repeat

d. Background-attachment

What is the output of the below code?

```
<html>
<head>
<st
yle
> a
{
text-decoration:
overline; text-
transform: uppercase;
text-shadow: 3px 2px
red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
```

a. ```
<html>
<head>
<st
yle
> a
{
text-decoration:
overline; text-
shadow: 3px 2px red;
}
</style>
</head>
<body>
TCS Welcomes You!!!

</body>
</html>
```

b.  ```
<html>
<head>
<st
yle
> a
{
```

```
text-transform:
uppercase; text-
shadow: 3px 2px red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
c.  <html>
<head>
<st
yle
> a
{
text-decoration:
overline; text-
transform: uppercase;
text-shadow: 3px 2px
red;
}
</style>
</head>
<body>

<a href="#">TCS Welcomes You!!!</a>

</body>
</html>
```
d. None of options

Which of the following is a valid array declaration in Java Script?
a. var week = new Array{"Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"};
b. var week = new Array("Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat");
c. var week = new Array["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];
d. None of options

What is the output of the below code?
```
<html>
<body>

<p id="demo"></p>

<script>
var fruits = ["Red", "Green", "Blue", "Black"];
document.getElementById("demo").innerHTML =
fruits.toString();
```

```
</script>

</body>
</html>
```

a. HashCode
b. [Red,Green,Blue,Black]
c. Red,Green,Blue,Black
d. None of options

Java

Which of the below is a illegal modifier for class declaration?

a. public

b. abstract

c. final

d. private

What is the output for the following

code: public class Demo {

public static void main(String args[])

{

String

x="HELLO";

String

y="HELLO";

if(x.compareTo(y))

{

System.out.println("STRINGS ARE EQUAL");

}
else

{

System.out.println("STRINGS NOT EQUAL");

}

}

}

}

a. STRINGS ARE EQUAL

b. STRINGS NOT EQUAL

c. Compilation error

---------------------- is required for compiling,executing and debugging a java program

a. JVM

b. JRE

c. JDK

d. JIT

KYT

Computer Algorithms which determines the category of observation based on previously seen examples is called as

a. Linear Regression

b. Classification

c. Maturity Learning

d. Numerical regression

When Tata Consultancy Services established?

a. 1978

b. 1968

c. 1988

d. 1971

Some challenges in Artificial Intelligence are

a. Cost

b. Technology

c. Common Sense

d. All of the options

Advantages of Cloud Services are a. No Hardware Procurement required

b. Space for hosting equipment is not required

c. Cost for technicians who maintain Hardware

d. Security

e. All of the options

What are the problems associated with Big Data

a. Inexperience collecting data from nontraditional sources

b. Not accustomed to dealing with such large quantities of data

c. Overly complex with relatively slow systems

d. All of the options

BizSkill

Judging another person's views solely based on our own values and culture is called :

a. Centrality

b. Diversity

c. Ethnocentrism

d. Criticism

Paul is working with a client who is casual while communicating with him through chat application. The client sends him memes and other forwards in order to build better workplace relationships. Select the best option.

a. Paul can be task oriented and polite. He can avoid reciprocating by sharing memes and forward through chat application.

b. Since the client is informal while communicating, Paul can also do the same.

c. Paul can tell the client that what is done so far is not right and that it's not professional to do so.

d. Paul should take up this matter with the HR.

What is true about Agile principles?

A. Leadership over management
B. Management over leadership

C. Adaptive over prescriptive

D. Prescriptive over adaptive

E. Customer collaboration over contract negotiation

F. Contract negotiation over customer collaboration

a. B,C,E

b. A,D,F

c. A,C,E

d. B,D,F

You are a team lead. During an initial meeting, you realise that you need 3 additional resources to work on the project. How will you comm unicate the same effectively in a Project Status Report?

a. Having 3 more associates in our team would help us complete the task effectively.

b. We have less number of associates in our team to complete the project work so if we are provided with 3 more associates, we would be able to complete the task.

c. We are facing a shortage of manpower for the task. Hence we need 3 more resources.

d. We need 3 associates to join our team. This would help us complete the task effectively.

What all details should be provided in the signature of an e-mail? Choose the best options.

a) Name & role

b) Phone & e-mail ID

c) Personal address

d) Organization Website

a. a, b & d

b. a, b & c

c. b, c & d

d. a, b, c &d

'Being objective' in your writing is the ability to:

a.Present accurate facts and figures. b.Present facts and not personal views. c.Present stereotypical information.

a. 1,3

b. 1,2

c. 1,2,3

d. 2,3

Katherine is about to write an important e-mail to one of her stakeholders and she is NOT SURE about the use of certain phrases. Which am ong the following can she make use of?

a) It is a blunder.
b) I was wondering if you could...
c) Sorry, I can't meet you. I'm busy that day.
d) I am afraid I won't be available.

a. a & b

b. b & d

c. b & c

d. a, b, c &d

You open your mail and see various emails which needs to be replied. In what sequence will you reply ?

a. Read each of them according to the order and reply one after the other.

b. Prioritize the emails based on their importance and then reply.

c. Forward the latest offers that are available in the e-commerce sites to your friends and then reply to the emails.

d. Mails will always be there, so have a coffee break with your colleagues first and send the emails later.

You have joined a project and you are in the training phase now. The project requires that you know the basics of Ruby on Rails. You compl ete an e-learning course on the same and now you are taking the assessment. During the assessment, a senior member of the team approache s you and asks if you can join a conference call instead of him. He requests you to just attend the call for 10 minutes. How will you respond?

a. Since you are in the middle of an assessment, politely say no to the team member. Explain your predicament. You can inform him that you would join the call after the assessment.

b. It is impolite to say no to a team member. You can take the assessment again, but the opportunity to attend this call, may never come b ack in your life.

c. You can say no as you have every right to say so. Your team mate will understand that your reason is genuine when you talk to him wh ile looking at the monitor.

d. It is impolite to say 'no' when you are the junior. After reaching a high position within the organization you can say 'no' as much as you want.

Choose the relevant answer/s that makes the following sentence complete and unambiguous - ' I like canteen but I do not like the food'

a. I do not like the food served in the canteen, but the canteen I like.

b. The ambience of the canteen is pleasant, however the quality of food could improve.

c. I like the canteen in our office but not the food served there.

d. I am in deep disagreement with the nature of food served in the canteen, however the kind of services and the ambiance on offer, I have little to complain about.

RiO

Of the following which best suits the following phrase? The production logs can be shared with the concerned team after appropriate _____

_____.

a. Data masking

b. Review

c. Approval

d. None of the options

RiO week is celebrated to

a. bring an awareness about lifecycle of a software to all the TCSers

b. create awareness regarding software quality

c. An initiative that is aimed at improving our production support operations.

d. None of the choices are correct

Design Algorithm

Duplication of code is the root cause of most of the maintenance problems

a. TRUE

b. FALSE

Which of the following sorting algorithms in its typical implementation gives best performance when applied on an array which is sorted or almost sorted (maximum 1 or two elements are misplaced).

a. Insertion Sort

b. Merge Sort

c. Quick Sort

d. Bubble Sort

As per good programming practices it is better to_____in codes.

a. minimize coupling and decrease cohesion

b. maximize coupling and increase cohesion

c. minimize coupling and increase cohesion

d. maximize coupling and decrease cohesion

Unix

Which command will delete the lines containing the pattern 'this' from the file?

a. delete -f this file

b. SED /this/d files

c. Sed /'this'/d file.

d. sed /this/d file

Given the command awk 'BEGIN{FS=" ";s=0}{s=s+$2}END{print s}' file . What will be the expected output?

a. Sum of first column of input file

b. Sum of second column of input file

c. Average of first column of input file

d. Average of second column of input file

Which command is used to change permission levels of a file or directory?

a. passwd

b. unset

c. return

d. chmod

Which option will find string "Ilp" in a file case insensitively.

a. grep -w "IP" file.txt

b. grep -i "Ilp" file.txt

c. grep -iw "Ilp" fle.txt

d. grep -w "Ilp" file.txt

Java UI

Which of the following is not a formatting element in HTML?

a. <b>

b. <p>

c. <strong>

d. <del>

What will be the out put of the below code;

<!DOCTYPE html>

<html>

<body>

<h1 style="font-group:verdana;">Xplore HTML</h1>

</body>

</html>

a. Print Xplore HTML in verdana font.

b. Print Xplore HTML in H1 with verdana font.

c. Print Xplore HTML in H1 with default font.

d. Print Xplore HTML without any formatting.

<caption> is tag used to define the table caption.

a. TRUE

b. FALSE

<p>Top news:</p>

```
<blockquote
url="https://www.thehindu.com//"
> Top news from The Hindu;


</blockquote>
```

The above code will display today's news from The Hindu in blocks.

a. TRUE

b. FALSE

Which html statement is used to emphasizing a text?

a. <mark>

b. <emph>

c. <del>

d. None of the options


```
<html>

<head>

<style>

a:link, a:visited
{ background-
color: green;
color: white;

padding: 14px 25px;

}


a:hover,
a:active {
background-
color: red;

}

</style>

</head>
```

```
<body>

<a href="register.html" target="_blank">Register</a>

</body>

</html>
```

What will be the out put of the above code?

a. Create a button with default background color as green and on mouse over it change to red.

b. Create a link with default background color as green and on mouse over it change to red.

c. Create a link Register with default style.

d. None of options

```
ul.a {

list-type: lower-alpha;

}
```

The above style will display

a. Used to display the <ul> with circle bullets.

b. Used to display the <ul> with roman letters.

c. Used to display the <ul> with lower case alphabets.

d. None of the options

```
<html>

<head>

<style>

.center {

text-align: justify;
border: 3px solid green;

}

</style>
```

```
</head>

<body>

<div class="center">

<p>Hello World.</p>

</div>

</body>

</html>
```

what will be the output of the above code?

a. Display Hello World in a green border with align left.

b. Display Hello World in a green border with align center.

c. Display Hello World in a green border with align right.

d. Display Hello World without any border and align center.

```
var x = 100 + 5 ** 3;
```

what will be the output of x?

a. 315

b. 225

c. 115

d. NaN

```
<html>

<body>

<script>

function
saveValue(x)
{ alert(x**2);

}
```

```
</script>

<div id="myDiv" style="display:none">

<input type="button" value="Click" onclick="saveValue('5');">

</div>


</body>

</html>
```

What will be the output of the code?

a. 10

b. 25

c. Script Error

d. None of options

Java

Given below table with columns specified as below
EMPLOYEE(EmployeeID,Employeename,yrsofexperience,gender,DOB,location).

What is the query for displaying the location and count of employees according to location?

a. SELECT location, COUNT(employeeID) FROM employee GROUP BY location;

b. SELECT location,gender, COUNT(employee_id) FROM employee GROUP BY location;

c. SELECT location,gender, COUNT(employee_id) FROM employee WHERE yrs_of_experience>2 GROUP BY gender;

d. None of the options

Which SQL clause can be used to match a condition on the grouped result of the query?

a. where

b. groupby

c. having

d. orderby

Given a relation as below.

Exam(ExamID,Name,Examdate,Cent

er,Location)

How can we remove the column location from above table?

a. alter exam DROP location ;

b. ALTER TABLE exam ADD location ;

c. ALTER exam ADD COLUMN location ;

d. ALTER TABLE exam DROP COLUMN location;

Consider the following
table; Customer

AccNo Name
Address 1001
Arun
Trivandrum

1002 Kishore

1003 Resmi Chennai

1004 Sanjay

Which is the right query for retrieving all the customer whose address is empty.

a. SELECT * FROM Customers WHERE Address IS NULL

b. SELECT * FROM Customers WHERE Address = ''

c. SELECT * FROM Customers WHERE Address IS EMPTY

d. None of the options

What is wrong with below code?

```
DECLARE
    faculty_record FACULTY_DEMO%ROWTYPE;

    CURSOR c_faculty is SELECT * FROM
 FACULTY_demo; BEGIN
```

```
    OPEN
    c_faculty;
    LOOP

END;

FETCH c_faculty into faculty_record; EXIT WHEN c_faculty%notfound;

    dbms_output.put_line(faculty_record.ID || ' ' || faculty_record.NAME || ' ' ||
faculty_record.LOCATION); CLOSE c_faculty;
```

a. syntax error in cursor declaration

b. Loop is not closed properly

c. Variable declaration has syntax error

d. Error in select statement

PL/SQL support the data definition commands like CREATE. True or False?

a. TRUE

b. FALSE

Find the output of the following code sgment assuming the gross_sale entry by user is 2500?

VARIABLE amount_payable NUMBER

ACCEPT gross_sale PROMPT 'Please Eneter
SaleAmount' DECLARE

```
    v_actual_sale
NUMBER(9,2):=&gross_sale;
BEGIN

    IF v_actual_sale >2000 THEN
        v_actual_sale :=
        v_actual_sale -500;

    ELSE

        v_actual_sale := v_actual_sale
    -100; END IF;

    :amount_payable :=
v_actual_sale; END;

/

PRINT amount_payable
```

a. AMOUNT_PAYABLE

2000

   ----
b. AMOUNT_PAYABLE

2400

c. Compilation error

d. RunTime Exception

What is the keyword used to force a FOR loop to decrement from the upper bound to lower bound?

a. INVERSE

b. BACK

c. REVERSE

d. None of the options

Which of the following are the Characteristics of an object?

a. State,Behaviour,Responsibility, Communication,Identity

b. State,Behaviour,Responsibility

c. Responsibility,Communication,Identity

d. State,Behaviour,Identity

Which of the below is incorrect?

a. int arr[]=new int[]{1,2,3,4,5,6};

b. int[] arr=new int[6];

c. int[] arr=new int{1,2,3,4,5,6};

d. int arr[]={1,2,3,4,5,6};

A table containing employee have some faulty records .ie the year of joining(YOJ) was incorrectly entered for employee ids between 20 and 100.

Choose from below the right sql query to correct the column year of joining (YOJ)as 201e.

Note: Please do not share this PDF to any other sources.
Sharing is strictly prohibited

a. update table Employees set YOJ=2015;

b. update Employees set YOJ=2015 where id between (20,100);

c. update Employees set YOJ=2015 where id between 20 and 100;

d. alter table employees add YOJ=2015 where id>=20 and id<=100;

Choose the options that is/are not true a. %ROWTYPE is used when an entire row of the table is returned.

b. %TYPE is used when a variable has to contain the same datatype as the column.

c. %TYPE is used when an entire row of the table is returned.

d. %ROWTYPE is used when a variable has to contain the same datatype as the column.

Python

What is the output of below

python code? def myfunc(x,

y, z, a):

print(x + y)

nums = [1, 3, 5, 4]

myfunc(*nums)

a. 4

b. 3

c. 2

d. 1

What is the output of

below code? x =

"TCS "

y = 8

print(x + y)

a. TCS

b. TCS8

c. TypeError

d. 8

Which of the following print statements will print all the cities in the list on a separate line?

tcs = ['HYD', 'CHN', 'GHT']

a. print("\n".join(tcs))

b. print(tcs.join("\n"))

c. print(cities.concatenate("\n"))

d. All the options are correct.

What is the output of

below code? tcs = {}

print(type(tcs))

a. <type 'list'>

b. <type 'tuple'>

c. Array

d. <type 'dict'>

A UNIQUE constraint can be either a column constraint or a table constraint.

a. False

b. True

What the following query will do?

DELETE * FROM books WHERE bookid=4;

a. The query is syntactically wrong

b. Query will delete the book whose bookid is 4

c. Query will delete all the books

d. None of the options

Consider the following Employee table

Name Null   Type

EMPID   NOT
NULL NUMBER(10)
EMPNAME NOT
NULL
VARCHAR2(50)
BRANCHID NOT
NULL NUMBER(10)

Choose the query which will increase the empname column size to VARCHAR2(200)

a. ALTER TABLE Employee INCREASE empname varchar2(200);

b. ALTER TABLE Employee MODIFY empname varchar2(50) to varchar2(200);

c. ALTER TABLE Employee MODIFY empname varchar2(200);

d. ALTER TABLE Employee CHANGE empname varchar2(200);

What the following SQL query will do?

SELECT employeename as 'EmpName' FROM Employee ORDER BY Empid;

a. The query is syntactically wrong

b. Query will return employeename from Employee table in ascending order of Employee Id

c. Query will return employeename from Employee table

d. None of the options

CURDATE()-This function returns the current date. a. True

b. False

What the following query will do?

SELECT * FROM Employee WHERE DOJ IS NOT NULL;

a. Query will return all records from Employee table whose DOJ is not null

b. Query will return all records from Employee table whose DOJ is null

c. The query is syntactically wrong

d. None of the options

Consider the following Dept table

DeptId DeptName NoofEmployee   Units

123	T&D	100	2
124	ISM	500	6
234	TTIS	5000	14

Which query is used to get the maximum no of employees from the above table

a. SELECT COUNT(NoofEmployee) from Dept;

b. SELECT MAXIMUM(NoofEmployee) from Dept;

c. SELECT MAX(NoofEmployee) from Dept;

d. All of the options

What is the output of the below query

SELECT REPLACE('ILP XPLORE','ILP','TCS')

a. ILP XPLORE

b. ILP TCS XPLORE

c. The query is syntactically wrong

d. TCS XPLORE

Choose the numeric data types in MySQL a. CHAR(size)

b. TINYINT

c. BINARY(size) and TINYINT

d. DECIMAL(m,d)

Identify the unordered collections in python

a. List

b. Set

c. Dictionary and Set

d. Tuple

Which of the following function is used to remove unwanted characters from a string

a. REMOVE

b. TRIM

c. FORMAT

d. SPACE