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SET	A
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**INDIAN SCHOOL MUSCAT
FINAL EXAMINATION 2022
INFORMATION TECHNOLOGY(CODE:802)**



CLASS : XII
DATE: 04-12-2022

TIME ALLOTTED : 3 HRS.
MAXIMUM MARKS : 60

GENERAL INSTRUCTIONS:

1. Please read the instructions carefully.
2. This Question Paper consists of 24 questions in two sections – Section A & Section B.
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. Out of the given (6 + 20 =) 26 questions, a candidate has to answer (6 + 14 =) 20 questions in the allotted (maximum) time of 3 hours.
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (22 MARKS):**
 - i. This section has 06 questions.
 - ii. There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (38 MARKS):**
 - i. This section contains 20 questions (QNo's 7 to 26).
 - ii. A candidate has to do 14 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

Q.1 Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)

- i. Which of the following is characterized by an extreme feeling of self importance? 1
 - (a) Narcissistic personality disorder
 - (b) Borderline personality disorder
 - (c) Dependent personality disorder
 - (d) None of the above
- ii. Name any two of the presentation software's available. 1
- iii. Why do entrepreneurs require persistence as one of the competences to succeed? 1

- iv. Which of the following is not a parameter to describe an individual's personality? 1
 - (a) Openness
 - (b) Self-confidence
 - (c) Neuroticism
 - (d) Agreeableness
- v. Write the keyboard shortcuts for the following. 1
 - (a) Make the content of spreadsheet bold
 - (b) Copy the contents from a spreadsheet.
- vi. Mention any two characteristics of Entrepreneurship. 1

Q.2 Answer any 4 out of the given 6 questions (1 x 4 = 4 marks)

- i. Name the first the national satellite-based computer network in India. 1
- ii. Internet transactions are susceptible to frauds. Creating a strong password is vital. A strong password has: 1
 - (a) 6-8 Alphanumeric characters with special symbols
 - (b) Only Special symbols
 - (c) Only numbers
 - (d) Less than 6 characters
- iii. What do you mean by a compiler? 1
- iv. Which of the following is true for a primary key of a table? 1
 - (a) It is used to uniquely identify a tuple in a table.
 - (b) Primary key field can accept duplicate values.
 - (c) You cannot update values in primary key field.
 - (d) A primary key field can have null.
- v. A group of statements which get executed repeatedly based on a condition in java is called 1
 - (a) Selection
 - (b) Sequential
 - (c) Iteration
 - (d) None of these
- vi. Which of the following is a disadvantage of web based applications? 1
 - (a) They do not need to be installed.
 - (b) They are available 24X7.
 - (c) They are slow as compared to software based applications.
 - (d) They offer cross platform compatibility.

Q.3 Answer any 4 out of the given 5 questions (1 x 4 = 4 marks)

- i. If `int x = 40 , y = 50 ;` What will be the output of the statement `System.out.println(x > y) ;` in java. 1
- ii. Mention any two advantages of using DBMS. 1

- iii. Write any two DML commands used in MySQL. 1
- iv. Cardinality of a table is five and degree is four. If three columns and three rows are added to this table, what will be the new degree and cardinality of the given table? 1
 - (a) 8,7
 - (b) 7,8
 - (c) 3,3
 - (d) 4,5
- v. In _____ phase we identify the problem statement for which the web application is to be developed. 1

Q.4 Answer any 4 out of the given 5 questions (1 x 4 = 4 marks)

- i. Identify the valid variable names in java from the following: 1
Avg sal, sum20 , avg_sal , float
- ii. Ms Sarika is creating a table SALESMAN with fields Salesmannumber, Name, TotalSales. She doesn't want the TotalSales column to be remain unfilled i.e. she wants to make entry in this field mandatory. Which constraint she should use at the time of creating SALESMAN table: 1
 - (a) Check
 - (b) Default
 - (c) Not null
 - (d) Primary key
- iii. Mention any two modes of payment during online shopping. 1
- iv. The _____ command is used to modify the structure of the table STUDENT in MySQL. 1
 - (a) Modify table STUDENT
 - (b) Alter table STUDENT
 - (c) Alter STUDENT
 - (d) Modify STUDENT
- v. What is an object in java? 1

Q.5 Answer any 3 out of the given 4 questions (1 x 3 = 3 marks)

- i. Write a java statement to create an array to store the salary of 4 employees. 1
- ii. In the table **employee**, Vinod doesn't want repeated values in column **salary**. Rewrite the correct command. 1
select salary from employee;
- iii. What is the significance of the main() method in java? 1
- iv. How do you display output in a java program? 1

Q.6 Answer any 3 out of the given 4 questions (1 x 3 = 3 marks)

- i. What is an exception in java? 1
- ii. Ms Reema has created a database with name “Exam”. Help her to access “Exam” database with the correct MySQL statement. 1
- iii. The National Portal of India provides a single window access to information and services being provided by the various Indian Government entities Which of the following is the website for the National Portal of India: 1
 - (a) india.gov.in
 - (b) india.gov.org
 - (c) indian.gov.in
 - (d) indian.gov.org
- iv. What do we mean by scope of a project? 1

SECTION B : SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions on Employability Skills (3 x 2 = 6 marks)

Answer each question in 20 – 30 words.

- Q.7** What is a spreadsheet? Name any one spreadsheet application. 2
- Q.8** What are the various organizational skills required to become a successful entrepreneur? 2
- Q.9** Explain about Obsessive-compulsive personality disorder. 2
- Q.10** How do you protect your spreadsheet from unauthorized access? Which menu option you will click to protect your spreadsheet? 2
- Q.11** What do you mean by “Industrial Entrepreneurs”? 2

Answer any 5 out of the given 7 questions (5 x 2 = 10 marks)

- Q.12** What will be the value of variable ‘data’ after the execution of the following code snippet? why? 2

```
choice = 10;
switch(choice)
{case 10: data = 5;
case 20: data = 10;
case 30: data = 15; break;
case 40: data = 20; break; }
```
- Q.13** The following commands are giving errors. Write the correct MySQL commands. 2
 - (a) **delete from table Student where rollno = 10 ;**
 - (b) **select * from Accounts dept like ‘B%’ ;**
- Q.14** Mr Subash has mistakenly entered “Ruwy” instead of “Ruwi” in address field of table ‘OFFICE’. Help him to write the correct SQL command to make the desired changes in the table. 2

- Q.15** A company is making a database of its product and dispatch. Product table includes Pcode, Pname, Pcost. Give details of Dispatch Table along with its schema. 2
- Q.16** What is the difference between a while and a do-while loop? 2
- Q.17** How is a java code executed? 2
- Q.18** What do you mean by default constraint for a field in a table? Explain with an example. 2

Answer any 2 out of the given 3 questions (2 x 3 = 6 marks)

- Q.19** Consider the following code, instead of printing number 1 2 3 4 5 it printed only 6. 3
`int x ;
for(x=1; x<=5 ; x= x+1) ;
System.out.println(x + " ");`
(a) Name the coding error shown in the above code.
(b) What is the reason for the error?
(c) Write the corrected java code.
- Q.20** What do you mean by aggregate function in MySQL? Explain any two aggregate functions used in MySQL. 3
- Q.21** Write a code in java using for loop that displays all numbers divisible by 5 from 1 to 50. 3

Answer any 4 out of the given 5 questions (4 x 4 = 16 marks)

- Q.22** Mr Abhishek wants to go for a business trip. He is thinking to book a train ticket. 4
(a) Name any one website he should browse for booking the train ticket.
(b) Give any one benefit of online reservation to Abhishek.
(c) What are the precautions to be followed while performing the online transactions.
(d) Give any one advantage to the company providing the online transaction.
- Q.23** Write a code in java using a for loop to display all even numbers from 1 to 25. Is for loop an entry controlled loop or an exit controlled loop? 4
- Q.24** Consider the statement: 4
String message = "Welcome to FIFA-2022" ;
Write a single line java code using String methods to perform the following:
(a) To convert message to uppercase.
(b) To find the length of the message.
(c) To replace the word "FIFA" with "FOOTBALL".
(d) To check whether the message contains "come" in it or not.

Q.25 Write the MySQL commands for the following queries:

4

Table Name: **RESORT**

RCODE	PLACE	RENT	TYPE	STARTDATE
R101	GOA	15000	5 Star	23 Jan 2008
R102	HIMACHAL	12000	4 Stat	12 Nov 2007
R103	KERALA	12500	5 Star	18 Mar 2006
R104	HIMACHAL	10900	3 Star	09 Jan 2007
R105	GUJARAT	8000	2 Star	29 Apr 2008

- (a) To display the RCODE and PLACE of all “5 Star” resort.
- (b) To change the TYPE of RCODE R104 as “4 Star”.
- (c) To display the maximum rent for each type of resort from table RESORT.
- (d) To display the details of resorts whose PLACE is ending with the letter ‘A’.

Q.26 Write a code in java using a while loop to display all numbers from 50 to 1. Is while loop an entry controlled loop or an exit controlled loop?

4

******END OF THE QUESTION PAPER******

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SECTION A: OBJECTIVE TYPE QUESTIONS

Q.1 Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks)

- i. People with this personality disorder disregard social rules and obligations. 1
 - (a) Borderline
 - (b) Antisocial
 - (c) Histrionic
 - (d) Narcissistic
- ii. Write the keyboard shortcuts for the following. 1
 - a) Make the content of spreadsheet bold
 - b) Copy the contents from a spreadsheet.

- iii. Mention any two characteristics of Entrepreneurship. 1
- iv. Why do entrepreneurs require persistence as one of the competences to succeed? 1
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`select salary from employee;`

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Answer each question in 20 – 30 words.

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- Q.14** What is the difference between a while and a do-while loop? 2
- Q.15** How is a java code executed? 2
- Q.16** What will be the value of variable 'val' after the execution of the following code snippet? why? 2

```
opt = 4;
switch(opt)
{case 3: val = 20;
 case 4: val = 25 ;
 case 5: val = 35; break;
 case 6: val = 45; break; }
```

- Q.17 What do you mean by default constraint for a field in a table? Explain with an example. 2
- Q.18 A company is making a database of its product and dispatch. Product table includes Pcode, Pname, Pcost. Give details of Dispatch Table along with its schema. 2

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- Q.19 Write a code in java using while loop that displays all numbers divisible by 4 from 1 to 50. 3
- Q.20 Consider the following code, instead of printing number 1 2 3 4 5 it printed only 6. 3
- ```
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System.out.println(x);
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String message = "Welcome to FIFA-2022" ;
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- Q.24 Write a code in java using a do-while loop to display all numbers from 50 to 1. Is do-while loop an entry controlled loop or an exit controlled loop? 4

Q.25 Write the MySQL commands for the following queries:
Table Name: **RESORT**

4

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- (c) To display the maximum rent for each type of resort from table RESORT.
- (d) To display the details of resorts whose PLACE is ending with the letter ‘A’.

Q.26 Write a code in java using a for loop to display all odd numbers from 1 to 30. Is for loop an entry controlled loop or an exit controlled loop?

4

******END OF THE QUESTION PAPER******