

ROLL NUMBER				
----------------	--	--	--	--

SET	A
-----	---



**INDIAN SCHOOL MUSCAT
FIRST PRE BOARD EXAMINATION 2023
INFORMATION TECHNOLOGY- CODE - 802**



CLASS : XII
DATE: 06-12-2023

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 + 18) 24 questions, a candidate has to answer (6 + 11) 17 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 (30 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 (30 MARKS):**
 - i. This section contains 18 questions.
 - ii. A candidate has to do 11 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. Mr. Ravi has feelings of emptiness, abandonment, pattern of emotional instability, violent outbursts and impulsive behaviour. He is having _____ type of personality disorder. 1
- ii. _____ either create a new market for their services or provide a service in an existing market. 1
- iii. _____ symbol is used to any calculation in a spreadsheet. 1
- iv. _____ are words that join two nouns, phrases or sentences. 1
- v. _____ is defined as the drive required to engage in goal-oriented behaviour. 1
- vi. "Green Skills" are primarily focused on _____ 1

Q.2 Answer any 5 out of the given 7 questions (1 x 5 = 5 marks)

- i. A group of statements which get executed based on a condition in java is called _____. 1
- ii. _____ is a special method that every Java application must have. 1
- iii. Choose the correct MySQL command to display 30% of salary as increment. 1
 - a. select salary + 0.3 as increment from company;
 - b. select salary * 0.3 as increment from company;
 - c. select salary * 0.3 rename as increment from company;
 - d. select salary + salary * 0.3 increment from company;
- iv. They are the people who determines the requirements of the end users and then develops specifications to meet these requirements. 1
 - a. Application programmers
 - b. System analysts
 - c. End users
 - d. Database Administrators
- v. What is byte code? 1
- vi. _____ are real time online lectures, where users participate in the lecture, may ask questions and get their queries answered. 1
- vii. What do you mean by a project in web application? 1

Q.3 Answer any 6 out of the given 7 questions (1 x 6 = 6 marks)

- i. Name one front end and one Back-end application to create Web Applications. 1
- ii. do... while loop is an example of _____ control loop. 1
- iii. _____ clause is used to sort values of a column in a table in MySQL. 1
- iv. What is NeGP? 1
- v. The main purpose of this constraint is to restrict the values of an attribute within a range. Name the constraint. 1
- vi. Which of the following is not a characteristic of a project? 1
 - a. Project has a beginning and an end.
 - b. The extent of the project is defined.
 - c. Project has no boundaries.
 - d. Project requires finite resources
- vii. A _____ in object oriented programming is a blueprint or prototype that defines the variables and the methods common to all Java objects of a certain kind. 1

Q.4 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. Mr Zaheer wants to purchase a product online. Help Mr Zaheer in choosing the correct order of steps to be followed. 1
 - A. Provide his details (Or login into his bank account)
 - B. Add items in shopping cart
 - C. Choose payment option (Make payment if not cash on delivery)
 - D. Select Buy option
 - a. C, D, B, A
 - b. B, D, C, A
 - c. D, B, C, A
 - d. A, C, B, D
- ii. Simi wants to input the price of shoes as 999.99 .What should be the data type and size of the column price in the table? 1
- iii. Mention any one advantage of a web based application. 1
- iv. State TRUE or FALSE: 1
sort()method in java is used to arrange an array of integers in ascending order.
- v. The number of tuples in a relation is called the _____ of a relation 1
- vi. Predict the output: 1
double[]Price = {90, 55, 22.5, 70.5, 92.5};
System.out.println(Price[2]);

Q.5 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. State TRUE or FALSE: 1
In Requirement Definition Phase we identify the problem statement for which the web application is to be developed.
- ii. Once the database “**Library**” is created, you can access the database “**Library**” on the server by using _____ command. 1
- iii. Write MySQL statement that selects all items with a price between 100 and 150 from ITEM table. 1
- iv. A program is interactive if it is able to take input from the user and respond accordingly. Which prebuilt java class have to be used for it? 1
- v. A _____ in java is a group of related classes. 1
 - a. Method
 - b. Package
 - c. Constructor
 - d. Variable
- vi. Identify the symbols used in java to write multiline comments. 1
 - a. / /
 - b. \$* *\$
 - c. /* */
 - d. /@ @ /

Q.6 Answer any 5 out of the given 6 questions (1 x 5 = 5 marks)

- i. Which of the following is a valid variable declaration? 1
 - a. my_note_1
 - b. 1st_note
 - c. my notel
 - d. %mynotel

- ii. _____ Wrapper Class is used for the primitive data type int. 1

- iii. This portal is a one point source to access all Indian Government websites at all levels and from all sectors. Name the portal. 1

- iv. Ms. Prapthi wants to arrange names of employees in alphabetical order in the employee table. Give the MySQL command to create a sorted list. 1

- v. _____ is an aggregate function in MySQL. 1
 - a. Total()
 - b. Countif()
 - c. Round()
 - d. Avg()

- vi. Give one benefit of online reservation. 1

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

Answer each question in 20 – 30 words.

- Q.7 What are the two types of motivation? Explain each. 2

- Q.8 What are the two major functions performed by an Entrepreneur? 2

- Q.9 What are the essential components of effective written communication? 2

- Q.10 Write down the steps to protect your spreadsheet in Calc. 2

- Q.11 What are the benefits of “Green Jobs”? 2

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

- Q.12 Give the output of the following code segment- 2

```
public class Main {  
    public static void main(String[] args) {  
        int day = 3;  
        switch (day) {  
            case 6:  
                System.out.println("Green colour");  
                break;  
            case 7:  
                System.out.println("Blue colour");  
                break;  
            default:  
                System.out.println("White colour"); } } }
```

- Q.13 Explain Drop table with Cascade command in My SQL. 2
- Q.14 Explain any two advantages of using a database. 2
- Q.15 A School is making database of its teachers and students. Teacher table includes teacher_code , teacher_name, dept. Give details of Student table along with its schema. 1 + 1
- Q.16 Find error and rewrite the correct code: 2
- ```
j = 0;
while (j< 10) {
System.out.println(j)
j++ ;
```

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

- Q.17 Complete the code in JAVA using a loop to print " welcome" 7 times: 1+1+1
- ```
_____ (int i = 0 ; i < 7 ; _____ )
{
    _____( "welcome" );
}
```
- Q.18 a. Vinod wants to display the details of staff whose name starts from K. Find errors in given MySQL command and write the correct statement. 1+2
- Select * from staff where name = *K;
- b. Classify them into DDL or DML commands
- Select, Create, Update, Alter
- Q.19 Explain the application of database management systems in government sector. 3

Answer any 3 out of the given 5 questions (4 x 3 = 12 marks)

- Q.20 a. Write a single line Java code using String methods to perform the following tasks 3+1
- ```
String msg = "FAREWELL XII";
```
- i. Convert the characters to small letters.
- ii. Find the total length of string.
- iii. Add a word "Sianora" at the end of original string.
- b. What is the purpose of a constructor?
- Q.21 a. Name two e-commerce websites. 1+1+2
- b. Creating a strong password is vital. A strong password has:
- i. Only numbers
- ii. 6-8 Alphanumeric characters
- iii. Special symbols
- iv. Both ii and iii
- c. What are the advantages in online learning?
- Q.22 a. Name the user defined method in the code given below. Also predict the output 2+2
- ```
static int myFunction(int y)
{ return ( 10 + y); }
```

```
public static void main(String[] args) {
    System.out.println(myFunction(25));
}
```

b. What is the difference between object and class in java?

- Q.23 a. What is an exception in java? 1+3
 b. Explain each of the following terms in exception handling
 i. try
 ii. catch
 iii. finally

- Q.24 Consider the following tables and write MySQL Commands: 4

Table name: **SHOP**

ShopId	ShopName	Location	NoOfEmployee	Dateofopening	OwnerId
Sh100	AbbA	Chennai	45	2001-02-10	C180
Sh101	Life style	Bangalore	60	2010-03-12	B125
Sh102	Libra	Chennai	30	2004-04-22	C122
Sh103	Folklore vibes	Delhi	55	2015-05-16	D104

Table name : **PROPRIETOR**

Prid	Prname
C180	Amit Sharma
B125	Sooraj Kumar
C122	Divya Prakash
D104	Sushant Patil

- a. To display all details from shop in the descending order of no of employees.
 b. To display Shop names, Location and Date of Opening of shops that were opened before 2010-01-01.
 c. To display the number of employees present in each location.
 d. To display Shop Name and Proprietor Name (Prname) of all shops in Chennai.

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