

Roll Number

SET A



INDIAN SCHOOL MUSCAT  
SECOND TERM EXAMINATION  
INFORMATION TECHNOLOGY (802)

CLASS: XI

Time Allotted: 2 Hrs.

05.03.2022

Max. Marks: 30

GENERAL INSTRUCTIONS

- Section-A (Employability skills) contains Q.1 to Q.6. Answer any 5 questions (5 Marks).
- Section-B (Subject skills) contains Q.7 to Q.15 (16 Marks)
- Section-C (Subject skills) contains Q.16 to Q.18 (9 Marks)
- Internal choices are given to Q.7, Q.8, Q.11, Q.13 and Q.17

**SECTION-A (5 Marks)**

**Answer any 05 question out of the given 06 questions**

- Q.1 Who is an entrepreneur? 1
- Q.2 Mention any two types of business activities. 1
- Q.3 Mention any two ways in which an entrepreneur can think to solve problems. 1
- Q.4 What do you mean by sustainable development? 1
- Q.5 Mention one point on the role of government in the success of green economy. 1
- Q.6 What do you mean by an ecosystem? 1

**SECTION-B (16 Marks)**

- Q.7 What do you mean by a database? 1
- OR**
- What is degree and cardinality with respect to a table?
- Q.8 What do you mean by child controls in NetBeans? Name any two child controls used in NetBeans. 1

**OR**

Name the methods used to retrieve text and display text at runtime in a **jTextField** control.

- Q.9 Write and explain(one point each) any four characteristics of MySQL. 2
- Q.10 What do you mean by primary key and alternate key? 2

- Q.11 Consider the table Student given below and write MySQL statements for the questions i) and ii).

2

**Table: Student**

Rollno	Name	Class	Marks	Grade	City
101	Rohan	XI	400	A1	Chennai
102	Aneeta	XII	390	A1	Bengaluru
103	Pawan Kumar	IX	298	C1	Mysore
104	Rohan	IX	376	B1	Mangalore

- i) To display name and class of all students.  
ii) To display all details of the student with rollno 102.

**OR**

What is DDL and DML? Give two MySQL commands of each.

- Q.12 What do you mean by property of a control (Object) in NetBeans? Give any two property of JButton Control.

2

- Q.13 Anusree wants to design a form for an organization which accept name, age, salary and department of employees as user input to **(jTextField1(for name), jTextField2(for age), jTextField3(for salary) and jTextField4(for dept)** respectively. Help Anusree to write the Java statements to accept the values of age and salary to variable names **age** and **salary** through the appropriate TextField controls.

2

**OR**

Name and explain any two characteristics of Java programming language.

- Q.14 What do you mean by source code and object code?

2

- Q.15 What do you mean by keywords in Java? Give any two keywords used in Java.

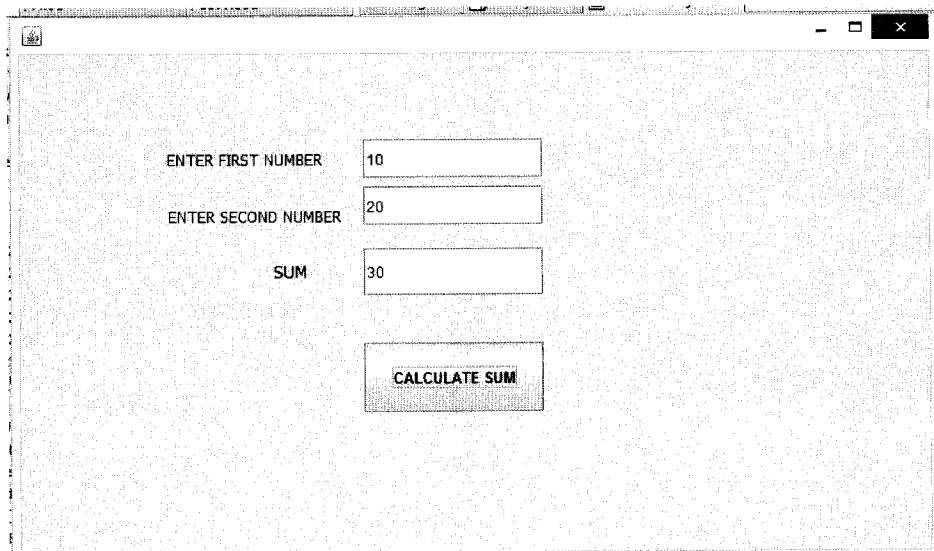
2

### **SECTION C (9 Marks)**

#### **(COMPETENCY BASED QUESTIONS)**

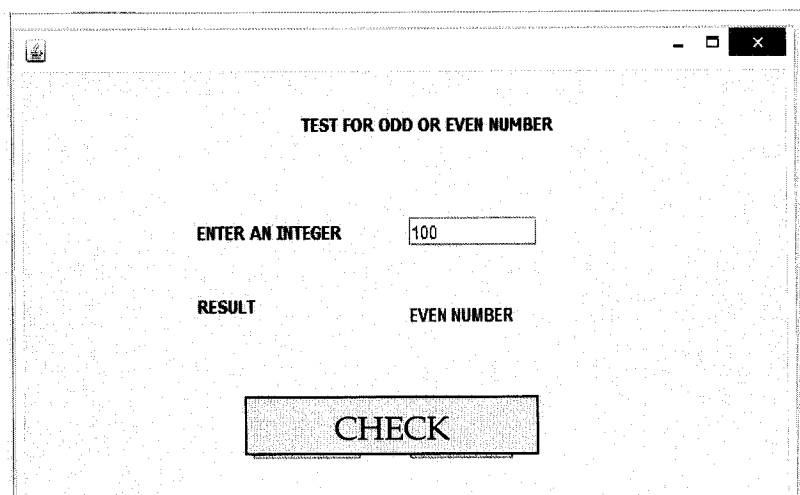
- Q.16 Vimal has developed a GUI application to accept two integers in the text boxes (**jTextField1 and jTextField2**) and find its sum and display the result in another text box (**jTextField3**). The result is displayed when you click the **“Calculate Sum” Button**. Help Vimal to write the **Java code** for the **“Calculate Button”**. The form is shown below:

3



- Q.17 A GUI application is developed to obtain an integer from the user in the Textbox(**jTextField1**) and checks whether it is an odd number or even number and display it in the label (**jLabel4**) as shown below.  
The result should be displayed when you click the **CHECK button**. Write the Java code for **CHECK Button**.

3



OR

A GUI application is designed to accept the Principal amount(**jTextField1**), Rate of interest (**jTextField2**)and Number of years(**jTextField3**) from the user and find the Simple Interest using the formula  $SI = (P \times R \times T) / 100$ . The simple interest should be displayed in the texfield box(**jTextField4**) when you click the **“CALCULATE SI” button**. Write the Java code for **“CALCULATE SI” button**. The form is shown below:

**SIMPLE INTEREST CALCULATOR**

ENTER THE PRINCIPAL AMOUNT

ENTER THE RATE OF INTEREST

ENTER THE NUMBER OF YEARS

SIMPLE INTEREST

**CALCULATE SI**

- Q.18 Surabhi wants to create a table **PRODUCT** with the following description. Help her to write the correct MySQL statements to create the table **PRODUCT**.

3

**Table: PRODUCT**

Column name	Data type	Remarks
PID	Integer	Primary key
PNAME	Varchar(20)	Not Null
QTY	Integer	
PRICE	Decimal(10,2)	
COMPANY	Varchar(20)	

**End of the Question Paper**