SET   A

INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION
INFORMATION TECHNOLOGY

CLASS: XII   Sub. Code: 802   Time Allotted: 3 Hrs

24.09.2019   Max. Marks: 60

General Instructions:

- **Multiple Choice Questions /Fill in the blanks** [Qns. 1 – 12]: Attempt any **10** questions (**10 x 1 = 10**).
- **Very short answer type questions** [Qns. 13 – 19]: Attempt any **5** questions. (**5 x 2 = 10**).
- **Short answer type questions** [Qns. 20 – 26]: Attempt any **5** questions (**5 x 3 = 15**).
- **Long answer/ Essay type questions** [Qns. 27 – 31]: Attempt any **3** questions (**3x 5 = 15**).
- **ICT skills MS-EXCEL** [Qns. 32-41]: Attempt any **10** questions (**10 x 1 = 10**).

Attempt any 10 from questions [1-12]   10x1=10

1. _____is the use of electronic i.e. information and communication technology (ICT) tools for governance by the government for the citizens
   a) E Learning   b) e Commerce   c) E-Governance   d) E payment

2. _____ is an exit control loop in JAVA.
   a) for loop   b) switch…case   c) while loop   d) do..while loop

3. Name the first e-governance site in India
   a) DISNET   b) NICNET   c) DISNIC   d) NICDIS

4. 22%3 in JAVA = ?

   a) 22   b) 1   c) 3   d) 2

5. The number of rows in a relation is called the _____of a relation.
   a. Cardinality   b. Table   c. Tuple   d. Degree

6. Out of the following which one is a primitive data type used for numbers with decimal point(real numbers) in JAVA?
   a. int   b. double   c. char   d. All the above

7. _____ command is used to eliminate duplicate values of an attribute in the select query
   a. Update   b. Unique   c. Distinct   d. No Duplicate

8. Command to display output in JAVA .
   a. system.out.println()   b. system.Out.println()
   c. System.out.println()   d. System.Out.println()

9. In order to restrict the values of an attribute within a range, _____ constraint to be used.
   a. Check   b. NULL   c. Default   d. NOT NULL

10. _____ translates the byte code in JAVA into machine code and then executes it.

11. The columns which can qualify as a primary key are known as
    a) Super key   b) Candidate key   c) foreign key   d) Alternate key

12. _____ command is used to delete the structure of the table
    a. Drop Table   b. Drop Database   c. Delete Table   d. Alter Table

Attempt any 5 from questions [13-19]   5x2=10

13. Differentiate between DDL and DML.

14. Define a) Candidate key   c) Primary key

15. Categorize the following as e-Governance and e-Learning applications.

    i) On-line experiments in a virtual Chemistry lab of a college.
    ii) On-line application submission for change of address in the passport.
    iii) On-line bill payment of electricity Charges.
    iv) On-line tutorials on w3schools.com

16. How is '+' operator used in JAVA(with numbers and with strings) ? Explain with example.

17. Name any 4 primitive data types in JAVA.

18. Explain any two key characteristics of a project in web application

19. Varun has given the following query on a table student but he is unable to execute it
    successfully. Write the correct query after rectifying the error
    Alter student add column marks int

Attempt any 5 from questions [20-26]   5x3=15

20. Write any three rules in naming variables in JAVA.

21. Rewrite the following JAVA code after removing error(s). Underline the corrections done.
    int a
    For(i=0,i<10,i++)
    system.out.println("value is + i)

22. Predict the output generated by the following code. Also mention whether the loop is entry
    control or exit control loop (2+1)
    int x =10, b=30;
    while (x<=40)
    {
    x+=b;
    b-=2;

```
System.out.println(" "+x);
}
```

23. Write a JAVA program to input a number. If the number is even then Display its square otherwise its cube.

24. What is meant by project management? Name the 4 phases in project management.

25. Mention any three advantages of e-Learning.

26. Write any 3 advantages of databases.

Attempt any 3 from questions [27-31]

3x5=15

27. Consider the following table **Library** and answer the following Queries in **SQL.** (5)

Table : Library

Book_id	Book name	Author_name	Publisher	Price	Type
C0001	Fast Cook	Lata Kapoor	EPB	355	Cookery
F0001	The Tears	William Hopkins	NRB	650	Fiction
T0001	My First JAVA	Brain & Brooke	EPB	350	Text
T0002	JAVA Brain works	A.W. Rossaine	TDH	350	Text
F0002	Thunderbolts	Anna Roberts	NRB	750	Fiction

   a) To display the different Publishers from the table Library.
   b) To display the details of books whose authorname starts with letter A.
   c) To find the total price of books by the pblisher EPB.
   d) To change the price of 'The Tears' as 700.
   e) To display the names and price from books in descending order of their prices.

28. (i) Write a program to which assigns a number (1-4) to a variable. Print the corresponding direction using switch..case (1- North, 2- South,3-East,4-West, invalid otherwise.
   (ii) What is the difference between String and char type of data?   (3+2)

29. Ahmed is trying to Book online railway ticket. Mention two precautions he has to take while making online transaction. Also write three advantages of online payment.(5)

30. What is eGovernance? Write advantages of eGovernance.   (2+3)

31. (i) Write a java program which prints a remarks based on the following criteria for a student whose scored 78%.

   Percentage   Remark
   >60   PASSED with I Division
   40-60   PASSED with II Division
   <40   FAILED

   (ii) Explain the syntax of for loop: (3+2)

Attempt any 10 from questions [32-43]

32. New,open,Print are located in _____

    a) Title bar   b) menu bar   c) formatting bar   d) standard bar

33. How will you refer to the range of cells from A1 to B5?

34. What is the address of the cell formed by the intersection of column 6 and row 4?

35. The error _____ specifies 'The column is not wide enough to display the value'.

36. What is the effect of CTRL+SPACEBAR   ?
    a) Selects a single row   b) Selects Multiple rows   c) Selects single column
    d) Selects multiple columns

37. Name the feature selectively blocks out the data you do not want to see and displays only the rows or columns that meet the conditions or criteria you specify.

38. Name the built in function in CALC used to total the values of few cells.

39. Maximize ,minimize and close buttons are located in _____
    a) Title bar   b) menu bar   c) formatting bar   d) standard bar

40. Formulae in Calc always starts with _____ sign.

41. The option to save a file is located in _____.
    a) Title bar   b) menu bar   c) formatting bar   d) standard bar

42. Shortcut to select the entire worksheet
    a) CTRL+S   b) CTRL+A   c) CTRL+P   d) ALT+S

43. Which feature of CALC is used to fill the predefined series months of the year?

End of the Question Paper