2022
INFORMATICS PRACTICES

Total marks : 70   Time : 3 hours

General instructions:
i)   *Approximately 15 minutes is allotted to read the question paper and revise the*
       answers.
ii)   *The question paper consists of 28 questions. All questions are compulsory.*
iii)   *Marks are indicated against each question.*
iv)   *Internal choice has been provided in some questions.*
N.B: Check to ensure that all pages of the question paper is complete as indicated on the top left
       side.

1. **Choose the correct answer from the given alternatives:**   **5x1 = 5**
    (a)   www stands for _____
          i)   World wide web   ii)   Web world wide
          iii) Wide world web   iv)   None of these

    (b)   Which property of J Frame helps you to display some text in title bar of it?
          i)   Text   ii)   Title
          iii) Name   iv)   Caption

    (c)   Which of the following is a selection statement?
          i)   For loop   ii)   While loop
          iii) If   iv)   Switch

    (d)   How can you make student database your active database?
          i)   By use command   ii)   It by default active
          iii) By active command   iv)   Not possible

    (e)   Which statement is used to retrieve unique record from a table?
          i)   DISTINCT   ii)   READ
          iii) DISPLAY   iv)   EXTRACT

2.   Mention any two advantages of computer.   **1**

3.   Define int data type of Java.   **1**

4.   What are the various selection statements available in a program?   **1**

5.   What is an entity?   **1**

6.   What is a super key?   **1**

7. What is a Domain?   **1**

8. What is the application area of MySQL Enterprise server?   **1**

9. Name any two testing methods   **1**

10. What is the use of registers available in CPU?   **2**

11. What are the functions of an operating system?   **2**

12. Why Java is called portable and dynamic?   **2**

13. What is an array?   **2**

14. What is an event?   **2**

15. What is the difference between the use of J Text Field and J
    Password Field in a program?   **2**

16. Define security and integrity in the context of DBMS.   **2**

17. Explain the various symbols used in ER diagram.   **2**

18. Describe the BLOB data type.   **2**

19. Write short notes on DDL and DML.   **2**

20. Write short notes on Unit Testing.   **2**

21. **a.** What are the hardware and software requirement in order to
        access internet?
                          Or   **4**
    b. What is Social Networking? Discuss any three advantages.

22. **a.** What is NetBeans? What are the various screen segments of
        NetBeans window?
                          Or   **4**
    b. Discuss any four methods of JFrame class.

23. **a.** Compare and contrast between J List and J Combo class.
                          Or   **4**
    b. What are the wrapper class? Discuss any three methods of integer
        class.

24. **a.** What are the various operators available in MySQL? Briefly
       explain any four.
$$\text{Or}$$
       b. Discuss any four grouping functions available in MySQL.

25. **a.** What is meant by a good program? Describe any three features
       of a good program.
$$\text{Or}$$
       b. Why should you follow programming guidelines? Discuss in brief
       any three general programming guidelines followed in the industry.

26. **a.** Discuss in brief the features of Java Programming language.

$$\text{Or}$$

       b. What different data types are available in Java? Discuss in brief
       any three.

27. **a.** Discuss in brief any five characteristics of DBMS.

$$\text{Or}$$

       b. Explain any five rules of codd in context of MySQL.

28. **a.** Define e-Governance and discuss any four benefits offered to
       citizen by e-governance.
$$\text{Or}$$

       b. What are the various characteristics of e-learning?

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