

2021

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 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) The technique for transferring plain text into cipher text is called:

- i) Encryption
- ii) Cryptography
- iii) Decryption
- iv) None of these

(b) Where can one see the list of bugs found in the program?

- i) Output Window
- ii) Source Window
- iii) Error Window
- iv) None of these

(c) _____ class can be instantiated to create a list box.

- i) JComboBox
- ii) Jlist
- iii) JDropDown
- iv) JListBox

(d) Which statement is used to create a database in MySQL?

- i) Create
- ii) Alter
- iii) Make
- iv) Drop

(e) The sequential model of software engineering is also called _____

- i) Water Fall Model
- ii) Agile
- iii) Prototyping Model
- iv) Spiral

2. What is E-Commerce? **1**

3. What is an Operating System? **1**

4. Java programs need to be interpreted before execution. Why? **1**

5. What is Java? **1**

6. What is a domain? **1**

7. Write a short note on DDL. 1
8. What is LIMIT keyword? 1
9. What is the use of comments in programming? 1
10. What is meant by virtual learning environments? 2
11. What is E-Governance? 2
12. Write short notes on Control Bus and Serial Port. 2
13. What is the use of registers available on CPU? 2
14. Explain in brief ActionListener and KeyListener. 2
15. Define the significance of add() and setMaximumRowCount() method of JComboBox class. 2
16. What is NetBean? 2
17. In which phase of SDLC, feasibility study is done and why? 2
18. Write short note on Manipulating arrays. 2
19. What is Cartesian product? 2
20. Explain two rules of Boyce Codd. 2
21.
 - a. What is a spreadsheet application? Discuss in brief any three features of it. 4
 - Or**
 - b. Explain the hardware and software requirement in order to access Internet. 4
22.
 - a. What is the use of JOptionPane class? Discuss its three methods. 4
 - Or**
 - b. Discuss any four methods of JFrame class. 4
23.
 - a. Differentiate between JRadioButton and JCheckBox. 4
 - Or**
 - b. Discuss any four features of Java programming language. 4
24.
 - a. What is ER Model? Explain the different types of relationship. 4
 - Or**
 - b. Briefly explain : (i) Data Type (ii) Constraints
(iii) Auto Increment (iv) Default. 4

25. a. Discuss the various grouping function available in MySQL. 4
Or
- b. Discuss the various Products of MySQL.
26. a. Discuss any five data types available in Java. 5
Or
- b. Compare and contrast between CUI and GUI.
27. a. Describe any five features of a good program. 5
Or
- b. Discuss in brief the various characteristics of DBMS.
28. a. Discuss in brief any five general programming guidelines followed in the industry. 5
Or
- b. Define Database. Explain two advantages and two disadvantages of database.
