

2019
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 process to convert analog into digital form is called:
 - i) Demodulation
 - ii) Modulation
 - iii) Router
 - iv) Bluetooth

- (b) _____ is an area where uneditable text or icons can be displayed.
 - i) JTextField
 - ii) JList
 - iii) JPanel
 - iv) JLabel

- (c) The _____ points to a file or directory in relation to the present file or directory.
 - i) Absolute URL
 - ii) Relative URL
 - iii) Fragment URL
 - iv) None of these

- (d) _____ is a business object that represents a group or category of data.
 - i) Attribute
 - ii) Entity
 - iii) Candidate key
 - iv) Domain

- (e) Which of the following statement is not a DML statement?
 - i) DELETE
 - ii) INSERT
 - iii) SELECT
 - iv) DROP TABLE

- 2. What is a unicode? 1

- 3. What is a reserve word? 1

- 4. What is meant by 'return' type in java? 1

- 5. What is meant by single-row function? 1

- | | | |
|-----|---|----------|
| 6. | What is the use of SET AUTOCOMMIT statement? | 1 |
| 7. | What is the purpose of GROUP BY clause? | 1 |
| 8. | What is UNIQUE KEY constraint? | 1 |
| 9. | What is e-market? | 1 |
| 10. | Define 'back-end' application. | 2 |
| 11. | What is e-governance? | 2 |
| 12. | What are repeaters? | 2 |
| 13. | What is a proprietary software? Give examples. | 2 |
| 14. | What is the use of <i>continue</i> statement in java? | 2 |
| 15. | State the difference between '=' and '==',. | 2 |
| 16. | Where can a global variable in an application be declared? | 2 |
| 17. | What is the function of DriverManager.getConnection() method? | 2 |
| 18. | What is the purpose of a database administrator? | 2 |
| 19. | What is the function of ORDER BY clause in SELECT statement? | 2 |
| 20. | Define Foreign key constraint. | 2 |
| 21. | a. Explain denial of service and snooping. | |
| | Or | 4 |
| | b. What is the difference between Unicode and ISCII code? | |
| 22. | a. What is a JRadio button? How are radio buttons managed? | |
| | Or | 4 |
| | b. Differentiate between an abstract class and interface. | |
| 23. | a. Explain the four types of JDBC driver. | |

Or**4**

b. How can one set textfields and its attributes in a form?

24. **a.** Use the following structure of customer table and answer the following question.

Column Name	Datatype	Length
Cust_ID(p.key)	Integer	7
Cust_Name	Varchar	30
Cust_Address	Varchar	40
Pin_Code	Number	6
Cust_Phone	Varchar	10

Write the SQL command to create the above table including its constraints and also write the code to insert a single record into it.

Or**4**

b. Explain the purpose of COMMIT and ROLLBACK statement.

25. **a.** What is integrity constraints? Describe two levels of constraints.

Or**4**

- b.** Write SQL commands for the following statements from (i) to (iv).
Table: SUPPLIER

SNO	PName	SName	Qty	Price	City
S1	Bread	Britannia	150	8.00	Delhi
S2	Cake	Britannia	250	20.00	Mumbai
S3	Coffee	Nescafe	180	45.00	Delhi
S4	Chocolate	Amul	350	10.00	Mumbai
S5	Sauce	Maggi	300	36.00	Jaipur

- (i) Display data for all products whose quantity is between 180 and 380.
(ii) Display data for all products sorted by their quantity.
(iii) Give Sname for that entire product whose name starts with 'C'.
(iv) Find all products that have no supplier.

26. a. Write any five advantages of JDBC.

Or

5

b. Define the following terms:

(i) Methods

(ii) Objects

(iii) Constructors

(iv) Class

(v) Local variables

27. a. What is a transaction? Explain the four properties of transaction.

Or

5

b. What is a database? Write any two advantages and disadvantages of DBMS.

28. a. What are the fundamental rules for naming identifiers to create objects in MySQL?

Or

5

b. Write the output of the following:

(i) `SELECT LEFT('MYSQL QUERY LANGUAGE',5)`

(ii) `SELECT LENGTH('MYSQL LANGUAGE')`

(iii) `SELECT INSTR('MYSQL LANGUAGE', 'Q')`

(iv) `SELECT UPPER('mysql query language')`

(v) `SELECT POW(2,2)`
