

2019

INFORMATICS PRACTICES

Total marks : 70

Time : 3 hours

General Instructions :

- Approximately 15 minutes is allotted to read the question paper and revise the answers.
- The question paper consists of 28 questions. All questions are compulsory.
- Marks are indicated against each question.
- 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 :**5×1 = 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 `ORDER BY` clause? 1
8. What is `GROUP BY` statement? 1
9. What is a market? 1
10. Define 'back-end' application. 1
11. What is a programmer? 1
12. What are operators? 1
13. What is a proprietary software? Give examples. 1
14. What is the use of conditional statement in java? 1
15. State the difference between `if` and `if-else`. 1
16. Where can a global variable in an application be declared? 1
17. What is the function of `DriveManager.getConnected()` method? 1
18. What is the purpose of a database administrator? 1
19. What is the function of `ORDER BY` clause in `SELECT` statement? 1
20. Define foreign key constraint. 1
21. a. Explain detail of service and accounting. 4
Or 4
b. What is the difference between Unicode and UCS code? 4
22. a. What is a *Relax* button? How are radio buttons managed? 4
Or 4
b. Differentiate between an abstract class and interface. 4
23. a. Explain the two types of JDBC drivers. 4

Or

4

- b. How can you set text fields and its attributes in a Java? 4
24. a. Use the following structure of customer table and answer the following question. 4

Column Name	Data type	Length
Cont. Key (key)	Integer	7
Cont. Name	Varchar	50
Cont. Address	Varchar	80
Pin Code	Number	5
Cont. 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. 4
25. a. What is integrity constraint? Describe two levels of constraints. 4
Or 4

- b. Write SQL commands for the following statements from (i) to (iv). 4

Table: **SUPPLIER**

IDNO	Product	Quantity	Price	City
(i)	Bread	150	4.00	Datta
(ii)	Cake	250	10.00	Mumbai
(iii)	Coffee	100	45.00	Datta
(iv)	Chocolate	150	10.00	Mumbai
(v)	Sweet	100	10.00	Jaipur

- (i) Display data for all products whose quantity is between 100 and 150.
- (ii) Display data for all products sorted by their quantity.
- (iii) Give Name 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 LENTH('MYSQL LANGUAGE')
- (iii) SELECT INSTR('MYSQL LANGUAGE', 'Q')
- (iv) SELECT UPPER('mysql query language')
- (v) SELECT POW(2,2)