

2017
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) In which type of network cable, the inner core is made up of glass?
(i) Optical fiber cable (ii) Twisted pair cable
(iii) Ethernet cable (iv) Coaxial cable
- (b) _____ allows a program to execute a statement many times.
(i) for statement (ii) switch statement
(iii) while statement (iv) do-while statement
- (c) A _____ represents a value that never changes.
(i) identifier (ii) keyword
(iii) literal (iv) variable
- (d) How will you remove leading and trailing blanks from a character string?
(i) using TRIM() (ii) using LENGTH()
(iii) using LOWER() (iv) using SUBSTR()
- (e) _____ property of transaction ensures that the database property changes status upon a successfully committed transaction.
(i) Durability (ii) Isolation
(iii) Consistency (iv) Atomacity

2. What is a Unicode? **1**

3. What is e-governance? **1**

4. What is a reserved word? 1
 5. Which keyword is used to declare java class? 1
 6. How can the font size of a single line on a webpage be changed? 1
 7. What is the purpose of statement object? 1
 8. What is a constraint? 1
 9. What is the use of HAVING clause in a query? 1
 10. What is a MAC address? 2
 11. What is a proprietary software? Give examples. 2
 12. What is a tag? Name any two attributes used with this tag. 2
 13. What are the steps required to execute a query in JDBC? 2
 14. What is the difference between declaring a variable and defining a variable? 2
 15. What is CHAR data type? 2
 16. What are group functions? 2
 17. Differentiate between Create table and Alter table. 2
 18. What is a Cartesian product? 2
 19. Give any four built-in functions of SQL. 2
 20. What is a relation? Define the relational data model. 2
 21. **a.** Briefly mention two advantages and disadvantages of Ring topology in network. 4
- Or**
- b.** Explain the following terms:
(i) linux (ii) OSS

22. a. What is a string? Explain with examples.

Or

4

b. What is a block statement? How are block statements used in java program?

23. a. Illustrate the concept of inheritance with the help of an example.

Or

4

b. Explain the following terms:

(i) JPEG (ii) tag (iii) <P> tag (iv) HREF attribute

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

Or

4

b. What is transaction? What are the five states of transaction?

25. a. Explain Front End and Back End application.

Or

4

b. State the importance of e-business.

26. a. List the advantages of JDBC.

Or

5

b. What is an interface? Differentiate between an abstract class and interface.

27. a. Write the SQL commands for the following statements.

Table: SUPPLIER

Sno.	PName	Sname	Qty	Price	City
S1	Bread	Britania	150	8.00	Delhi
S2	Cake	Britania	250	20.00	Mumbai
S3	Coffee	Nescafe	170	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 170 and 370.

(ii) Display data for all products sorted by their quantity.

- (iii) Find all products that have no supplier.
- (iv) Give Sname for that entire product whose name starts with "C".
- (v) To list Sname, Pname, Price for all the products whose quantity is <200.
- (vi) To display Sno, Pname, Sname, Qty in descending order of quantity from the SUPPLIER table.

Or

5

- b.** What is a foreign key? What happens when a client program starts a new connection section in MySql server?

28. **a.** What is integrity constraints? Describe two types of constraints.

Or

5

- b.** Define the following functions:

- (i) COUNT() (ii) SUM() (iii) AVG()
- (iv) MAX() (v) MIN().
