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Reg. No. :

Code No. : 10426

Sub. Code : JSCN 4 A

B.Com. (CBCS) DEGREE EXAMINATION,
APRIL 2018.

Fourth Semester

Computer Application – Main

Skill Based Subject — INTRODUCTION TO
DATABASE MANAGEMENT SYSTEM

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. The processed data is _____.
(a) records
(b) information
(c) database
(d) file

2. Who has overall control of the database?

(a) DBA
(b) Security officers
(c) Database user
(d) Application developers

3. How many types of views are available?

(a) 2 (b) 3
(c) 4 (d) 5

4. The overall structure of the database is called

(a) table (b) schema
(c) package (d) object

5. How many types of constraints are available?

(a) 2 (b) 3
(c) 4 (d) 5

6. _____ is a unique identifier for the table and can be referred by another table.

(a) primary key
(b) reference key
(c) foreign key
(d) candidate key



7. When null occur in grouping attribute the _____ operation treats them just as in projection.

- (a) aggregate
- (b) projection
- (c) union
- (d) intersection

8. UML stands for _____.

- (a) Unified Model Language
- (b) Uniform Model Language
- (c) Unique model language
- (d) None

9. Which of the following is the result of select command?

- (a) table
- (b) trigger
- (c) index
- (d) record

10. Execution of code is called _____.

- (a) Transaction
- (b) Program
- (c) Process
- (d) Command

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Answer should not exceed 250 words.

11. (a) Define data, database and DBMS.

Or

(b) Discuss view of data.

12. (a) Discuss evolution of data models.

Or

(b) List out various business rules.

13. (a) Discuss the features of good database design.

Or

(b) What is atomic domain?

14. (a) Explain set operations.

Or

(b) Discuss the computational capabilities of relational calculus.



15. (a) Discuss about update on views.

Or

- (b) Explain all aggregate functions.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Answer should not exceed 600 words.

16. (a) Compare database and file system.

Or

- (b) Explain transaction management.

17. (a) Explain the importance of data models.

Or

- (b) Discuss the basic building blocks of data model.

18. (a) Explain various rules of Codd.

Or

- (b) Discuss logical view of data.

19. (a) Explain tuple relational calculus.

Or

- (b) Write about relational algebra.

20. (a) Describe security in SQL.

Or

- (b) Explain various types of joined relations.

