(For the candidates admitted from 2012–2013 onwards)

B.C.A. DEGREE EXAMINATION, NOVEMBER 2017.

Fourth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEM

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

1.   Define Database management system.

2.   What do you mean by weak entity set?

3.   What are the basic data types used in SQL?

4.   What is the use of views?

5.   What are functional dependencies?

6.   What is Encryption?

7.   Define constant.

8. List the attributes of explicit cursor.

9. Write a note on Varray.

10. What is a package in PL/SQL?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) Write some applications of database systems.

Or

(b) Discuss various types of attributes.

12. (a) Describe the format definition of tuple relational calculus.

Or

(b) List and explain set operations.

13. (a) Briefly discuss about decomposition.

Or

(b) What are the basic security requirements? Explain.

14. (a) Describe the PL/SQL block structure.

Or

(b) Explain FOR loop with an example.

15. (a) How do you declare a PL/SQL table? Explain with an example.

Or

(b) Write about triggers?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

All questions carry equal marks.

16. Write in detail about database users and Administrators.

17. Briefly describe aggregate functions.

18. What is normalization? Discuss any two in detail.

19. Explain about Exceptions.

20. Elucidate how are procedures used in PL/SQL.

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