Total Pages: 6

ITD-104

Post Graduate Diploma in Computer Application Examination, 2018

DATABASE MANAGEMENT SYSTEM

Paper-IV

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Time Allowed: Three Hours Maximum Marks: 75

PART - A (खण्ड-अ)

Marks: 20

Answer all questions (50 words each). All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर पचास शब्दों से अधिक न हो। सभी प्रश्नों के अंक समान हैं।

PART - B (खण्ड-ब)

Marks: 35

Answer five questions (250 words each). Selecting one from each unit. All questions carry equal marks. प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART - C (खण्ड-स)

Marks: 20

Answer any two questions (300 words each). All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो। सभी प्रश्नों के अंक समान हैं।

PART-A

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- 1. (i) What is database?
 - (ii) Define physical model.

UNIT-II

- (iii) What is meant by attributes?
- (iv) Define specialization.

ALLSWOOD AND TINU (250 words each).

- (v) Define the foreign key.
 - (vi) What is relational algebra?

Answer and VI-TINU's (300 words each).

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(W-EUEF) DATEMAN

All questions carry equal marks.

(vii) What is SQL.

[Marks: 20

Marks: 35

Marks: 20

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(viii) What are SQL operators?

Explain the follow- In IVIII algebra operangus project

- (ix) Define integrity constraints.
- (x) What are the dimensions of security?

PART-B

UNIT - I

- 2. Write about advantages of DBMS.
- 3. Differentiate between logical and physical model with example.

UNIT-II

- 4. Write the components of an E-R model.
- 5. Define RDBMS. Compare RDBMS with DBMS.

UNIT - III

- 6. Explain the following relational algebra operations project, cartesion product, natural join.
- 7. Why normalization is required? Discuss the first, second normal form.

UNIT-IV

- 8. What is embedded SQL? Explain.
- 9. What are the characteristics of SQL?

UNIT-V

- 10. Explain the various integrity constraints.
- 11. Describe the authenticaing users to the database.

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PART-C

is. What are compd-TINU errors and logical operators in

12. What do you understand by DBMS? Explain the goals and objectives of data base management system.

UNIT - II

13. Discuss the E-R model. How ER diagram is reduced into table? Explain by taking a suitable example.

UNIT - III

14. What do you mean by relational algebra? What is difference between relational algebra and relational calculus? Write different operators available in relational algebra.

UNIT-IV

15. What are comparison operators and logical operators in SQL? Explain with example.

UNIT - V

- 16. Explain the following:
 - (a) Data security risks
 - (b) Database users

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calculus? Write different operators available in relational.