

Roll No.....

Total No. of Printed Pages : 4

BCA-202

B.C.A. Second Year Examination, 2017

Paper-II

(Database Management System)

Time Allowed : Three Hours

Maximum Marks : 100

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 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART-B (खण्ड-ब) [Marks : 50

Answer five questions (250 words each), selecting one from each Unit. All questions carry equal marks.

प्रत्येक इकाई में 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 : 30]

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

1. Answer the following questions :

- (i) Define Data abstraction.
- (ii) What is E-R model?
- (iii) Define Catalog.
- (iv) Differentiate between Base table and View.
- (v) Differentiate between Count(c) and Count(*) function.
- (vi) Define Data definition.
- (vii) Define Network system.
- (viii) Define Virtual records.
- (ix) Define Indexing.
- (x) Define Hashing.

PART-B

UNIT-I

2. What do you understand by DBMS system?
Discuss its advantages over file based system.
3. What are the components of an E-R model? Explain
with example.

UNIT-II

4. Write short notes on the following :
 - (a) Relational database.
 - (b) Relational data objects.
5. Explain different types of Keys with the suitable
example.

UNIT-III

6. Write short note on SQL language.
7. What are Views? Explain with example.

UNIT-IV

8. Explain DBTG CODASYL Model.
9. Explain Hierarchical Model.

UNIT-V

10. Write short notes on the following :
 - (a) Logical and Physical file organization.
 - (b) Sequential and Random file organization.
11. What are the advantages of B-tree indexes?

PART-C

12. Explain Specialization, Generalization and Aggregation with example.
13. Explain relations and predicates with the help of example.
14. Explain update statement, groupby and orderby clause with example.
15. Explain Network Model with example.
16. Discuss Ordered file organization. Also discuss issues related to insertion, deletion and searching operations in the file organization.
