

**Part C**

12. What is DBMS ? Why DBMS is preferred over file system ?
13. Write short notes with example :
- (a) Candidate keys
- (b) Foreign key
14. Explain :
- (a) Data Definition
- (b) Data Manipulation
15. What is network model ? Explain with DBTG CODASYL model.
16. What is file organization ? Explain indexing and hashing.

This question paper contains 4 printed pages]

~~231892~~ **BCA-202**

**B.C.A. (Second Year) EXAMINATION, 2018**

**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 question from each Unit.*

*All questions carry equal marks.*

प्रत्येक इकाई से 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. (a) Define data abstraction.
- (b) Define data independence.
- (c) What is relation ?
- (d) Define NULL.
- (e) Write query for create table.
- (f) Write query for create views.
- (g) Draw network model diagram.
- (h) Draw hierarchical model diagram.
- (i) Define inverted.
- (j) What is nullist ?

**Part B**

**Unit I**

2. Who is database administration ? Explain different roles of a database administrator.
3. Explain all symbols used in ER diagram. Draw an ER diagram with any suitable example.

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**Unit II**

4. Explain Domains and Relations.
5. What are the primary and alternate keys ? Explain with example.

**Unit III**

6. Explain embedded SQL.
7. What are views ? Explain with example.

**Unit IV**

8. Explain :
  - (i) DBTG update facility
  - (ii) DBTG set processing facility.
9. What is Hierarchical model ? Explain its data retrieval facility and update facility.

**Unit V**

10. Explain overall system structure.
11. Differentiate :
  - (a) Logical and physical file organization
  - (b) Sequential and Random file organization.

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P.T.O.