(i) Printed Pages : 2

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(ii) Questions :9

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B.A./B.Sc. (General) 4th Semester 1048 COMPUTER SCIENCE

Paper-CS07-Data Base Concepts

Time Allowed : Three Hours]

[Maximum Marks: 30

Note :- Attempt five questions in all, select one each from Section A-D and Section E is compulsory.

SECTION-A

- What is difference between file system approach and database approach ?
- What do you mean by database approach ? Explain in detail the advantages of DBMS.
 6

SECTION-B

- 3. Explain in detail 12 rules (Codd's rules) for an RDBMS. 6
- Explain Hierarchical model. How the various operations are performed on it ?

SECTION-C

What is relational algebra ? How you can classify the relational algebra operations ?

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[Turn over

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- 6. (a) What is difference between relational algebra and relational calculus?
 - (b) What do you mean by relational calculus ? Explain various types of relational calculus.3

SECTION-D

- 7. (a) Define second normal form. Explain with the help of an example.3
 - (b) Explain various recovery techniques.
- 8. What is concurrency? Explain concurrency control locking methods in detail. 6

SECTION-E

(Compulsory Question)

9. Explain the following :

Sectoreb one Concrete A

- (a) What is ER model?
- (b) What is normalization?
- (c) Explain distributed databases.

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