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(Printed Pages 3)

Roll No. _____

20/1091

B.C.A. Examination, 2020

Fifth Semester

First Paper

(Introduction to DBMS)

Time : Three Hours

Maximum Marks : 75

Note : Attempt any **five** questions. **All** questions carry equal marks.

Note : The answers to short questions should not exceed 200 words and the answers to long questions should not exceed 500 words.

1. What is DBMS architecture? Write the characteristics of database approach. 15
2. What do you mean by the ER model? Explain with examples the notations used. 15

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3. Write difference between Constraints and Schema. Give the name of five applications that are used in database and why? Give reason. http://www.mgkvponline.com 15
4. What is the use of relational constraints and relational algebra in the relational data model? Explain with example. 15
5. Write 5 Queries which are used in SQL with example. What is the use of SQL in RDBMS. 15
6. What is Normalization? Explain 3NF, 4NF and 5NF. 15
7. What is the role of locking technique and database recovery? Describe with example. 15

8. What is Transaction Processing? Discuss about OLTP and OLAP. 15
9. Write short notes on any **three**: 5+5+5
- (a) Serializability
 - (b) Time stamp ordering protocol
 - (c) Commit and Roll back command
 - (d) Two phase locking

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