

## OSUS redmendes SECTION - B

Answei	r any five of the following. Each question carries ten marks. (5×10=50	))
	White a note on BBA.	5
	Explain any live types of attributes with an example for each.	5
	What is no . Explain motions of amounting me are	5
	Define don. Explain any Types.	5 5
	Explain ALTER and CREATE command with syntax and example.  Consider the below relation.  STUDENT (REG. NO., NAME, COURSE, GENDER)  TEST (REG. NO., SUB1, SUB2, SUB3, TOTAL, PERCENTAGE, RESULT)  Write the SQL query statement for the following:  i) Select name and course of the student who has got highest percentage.  ii) Count the number of girl students in BCA course.  iii) Display the reg. no. and name of the student who have failed in the test.  iv) Display the average marks scored in each of the 3 subjects.  v) Display reg. no., percentage and result of all the students.	5
	Explain aggregate functions in SQL.  Explain database anomalies.	5
	Write PL/SQL program to find factorial of a number using while loop. What are cursers? Explain its types.	5
	Explain different types of locks.  Explain different states of transactions with neat diagram.	5



Time: 3 Hours

## II Semester B.C.A. Examination, September 2020 (CBCS) (Fresher + Repeater) (2014-15 and Onwards) COMPUTER SCIENCE

BCA - 204 : Database Management System

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Instruction: Answer all Sections.

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## SECTION - A

Answer any ten of the following. Each question carries two marks.

 $(10 \times 2 = 20)$ 

- 1. What is DBMS? Mention any two functions of DBMS.
- 2. Mention the different types of SQL statements.
- 3. Define data independence. Mention its types.
- 4. Draw an ER diagram for book database.
- 5. Define entity and attribute.
- 6. What is Hashing? Mention its types.
- 7. Define candidate key and composite key.
- 8. What is projection? Give an example.
- 9. What is the difference between rollback and commit?
- 10. What is PL/SQL? Mention any two advantages.
- 11. What are ACID properties?
- 12. What is starvation? Give one example.

