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Total No. of Questions: 09] [Total No. of Pages : 01

B.Tech. (Sem. – 6th)
RELATIONAL DATABASE MANAGEMENT SYSTEMS-II
SUBJECT CODE : CS - 302
Paper ID: [A0470]

Time: 03 Hours **Maximum Marks: 60**

Instruction to Candidates:
1) Section - A is **Compulsory**.
2) Attempt any **Four** questions from Section - B.
3) Attempt any **Two** questions from Section - C.

Section - A

Q1) ***(10 × 2 = 20)***

a) List two features of the physical database level.
b) What is normalization?
c) What is a tuple variable?
d) List two relational algebraic operators.
e) List two advantages of SQL.
f) What are views?
g) What are the different types of indexes?
h) What is a trigger?
i) What are the advantages of views?
j) What do you mean by foreign key?

Section – B

(4 × 5 = 20)

Q2) Differentiate between entity and referential integrity with example.
Q3) What is a PROJECT operation? How is it represented? Explain with an example.
Q4) What are the different SQL data types? Explain with examples.
Q5) What are the differences between a book index and a table index? Explain with examples.
Q6) What do you mean by dynamic SQL? Explain its need with example.

Section – C

(2 × 10 = 20)

Q7) What are DELETE, UPDATE and APPEND queries? What are these used for? Explain with examples.
Q8) Explain and compare various normal forms with examples.
Q9) What are the main activities in the external and conceptual database design? Explain with examples.