

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)
B.Tech.Sem - IV CS&E :SUMMER- 2022
SUBJECT : ITC-II: DATABASE SYSTEMS

Day : Friday
Date : 24-06-2022

S-24307-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPUSLORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Use of non-programmable **CALCULATOR** is allowed.
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Q.1 What is DBA? Mention the functionalities of DBA. Explain in detail. **(10)**

OR

Q.1 Explain the concepts of conceptual design with the E-R model. **(10)**

Q.2 Briefly explain the concept of Generalization and specialization. **(10)**

OR

Q.2 What are the views? Differentiate between views and tables. **(10)**

Q.3 Differentiate between functions and procures write syntax of same. **(10)**

OR

Q.3 State 1NF, 2NF and 3NF and explain with examples. **(10)**

Q.4 Explain concept of SQL, DDL2 and DCL in detail. **(10)**

OR

Q.4 Briefly explain foreign key and primary key with any example. **(10)**

Q.5 Discus about different types of failures. **(10)**

OR

Q.5 Write concepts of storage structure recovery and atomicity. **(10)**

Q.6 What is a massive database and Hadoop? Explain in detail. **(10)**

OR

Q.6 What is spatial and geographic database? Explain in detail. **(10)**

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