

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)
B.Tech.Sem - IV Computer Science & Engineering : WINTER- 2022
SUBJECT : ITC-II: DATABASE SYSTEMS

Day : Wednesday
Date : 30-11-2022

W-24307-2022

Time : 02:30 PM-05:30 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 What are the advantages of DBMA? Explain the concerts of client server model. (10)

Q.2 Draw and explain the detailed system architecture of DBMA. (10)

OR

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

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

OR

Q.3 What is meant by closure of functional dependencies? Illustrate with an example. (10)

Q.4 List and explain the common data types available in SQL. (10)

OR

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

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

OR

Q.5 Explain in detail lock-based protocol and time stamp-based protocol. (10)

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

OR

Q.6 What is Hadoop database? How is Hadoop database different from traditional database.? (10)

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