

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2020 COURSE)
B.Tech.Sem - IV ELECTRICAL : WINTER- 2022
SUBJECT : DATABASE MANAGEMENT SYSTEM (SQL)

Day : Tuesday

Time : 02:30 PM-05:30 PM

Date : 29-11-2022

W-24552-2022

Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

- Q. 1 a) What is database management system (DBMS)? State the benefits of DBMS. (05)
b) What are the different types of database system? Explain any one in brief. (05)

OR

- Q.1 With a neat block diagram. Explain the architecture of typical DBMS system (10)
in brief.

- Q.2 Define the following terms: (10)

- a) Primary Key
- b) Key
- c) Super key
- d) Candidate key
- e) Foreign key

OR

- Q. 2 What is Normalization? Explain any two forms of Normalization in brief. (10)

- Q.3 Explain the various DML commands with suitable example. (10)

OR

- Q.3 What is view! Explain with suitable example and explain its syntax. (10)

- Q.4 Differentiate between SQL and PL/SQL. What are the advantages of PL/SQL over SQL? (10)

OR

- Q.4 a) Explain PL/SQL block syntax. (05)

- b) What are the different control structure in PL/SQL explain any one. (05)

- Q5 What is time- stamp? How does system generate time stamp explain with a suitable example. (10)

OR

- Q.5 Discuss various locking technique in concurrency control. (10)

- Q.6 What is Hadoop? Describe Hadoop Eco system in detail. (10)

OR

- Q.6 Explain Mango DB sharing with figure and also explain NOSQL (10)

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