SHAMBHUNATH INSTITUTE OF ENGINEERING AND TECHNOLOGY

Subject Code: BCS-501   **Subject: DBMS**

Course: B.Tech   **SEMESTER: Vth**

FIRST SESSIONAL EXAMINATION, ODD SEMESTER, (2024-2025)

Branch: COMPUTER SCIENCE & ENGINEERING

Time – 1 Hr. & 30 Min.   **Maximum Marks–30**
NOTE :(Attempt All Sections)

1. Attempt any **FIVE** of the following.

QN	QUESTION	Marks	CO	BL
a.	What is database management system?	2	CO1	L1
b.	Write the role of DBA in database management system.	2	CO1	L2
c.	What is data model?	2	CO1	L2
d.	With an example explain what a derived attribute is?	2	CO1	L3
e.	Define schema and instances.	2	CO1	L2
f.	Mention the advantage of database management system.	2	CO1	L1

2. AttemptAny **ONE** of the following.

QN	QUESTION	Marks	CO	BL
a.	Discuss DDL and DML with suitable syntax and examples.	5	CO1	L1
b.	Define three -level architecture of DBMS.	5	CO1	L2
c.	Draw an ER diagram for Hospital Management system with suitable assumption.	5	CO1	L4

3. Attempt Any __FIVE__ of the following.

QN	QUESTION	Marks	CO	BL
a.	Mention the application of database management system.	2	CO1	L1
b.	Write the syntax and example of INSERT SQL command.	2	CO2	L3
c.	Write the syntax and example of UPDATE SQL command.	2	CO2	L3
d.	Compare Database System with File System	2	CO1	L1
e.	Differentiate between - (i) Drop and Delete (ii) Modify and Update	2	CO2	L1
f.	What is the data independence?	2	CO1	L1

4. Attempt Any __ONE__ of the following.

QN	QUESTION	Marks	CO	BL
a.	Discuss ER Diagram. What is different notation used in ER Diagram.	5	CO2	L2
b.	Explain types of keys with a suitable example.	5	CO2	L2
c.	Explain specialization and generalization with suitable example.	5	CO2	L1

Bloom's Taxonomy Level (BL):-

Remember (L1),   Understanding(L2),   Apply(L3),   Analyze(L4),   Evaluating(L5),   Creating(L6)