

Sipna College of Engineering and Technology, Amravati.
Department of Information Technology
Session 2023-2024
Year/ Sem / Section :III Year/V Sem /A & B
Database Management System (SIT01)
Question Bank-I

Question No	Q1-Q11	Q12-Q19
CO -Mapping	CO-1	CO-2

UNIT-I

1. Explain Entity relational model.
2. List and Explain different levels of abstraction in DBMS
3. Describe the architecture of database system and explain each component in the system in detail?
4. Explain by giving examples
 - i) Weak entity set
 - ii) strong entity set
 - iii) id dependent weak entity set
5. Explain the limitations of file processing system and in what way these are overcome by a database management system.
6. Explain the difference Between physical and Logical data Independence?
7. Construct an E-R diagram for a Hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.
8. List the functions performed by DBA?
9. Draw and describe the database management system structure.
10. Explain Database Languages.(DDL, DML) with example.
11. Draw and Explain Architecture of DBMS.

UNIT-II

12. What is relational algebra? Explain its fundamental operations?
13. Explain following terms.
 - i)DBMS ii)Relational Schema iii)Relational instance iv) super key v) candidate key vi)primary key vii)Foreign key.
14. What is Functional Dependencies? Explain its properties with example.
15. What are anomalies? Explain the types of anomalies with example.
16. What is meant by integrity constraints explain its types
17. What is Normalization why do we need to normalize the relation.
18. Explain 1NF, 2NF, 3NF, BCNF 4NF, 5NF with proper example.
19. Explain basis relation algebraic operators with proper example.