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By K B Hemanth Raj

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DATABASE MANAGEMENT SYSTEM

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2019 -2020)

SEMESTER – V

Subject Code **17CS53**

IA Marks **40**

Number of Lecture Hours/Week **04**

Exam Marks **60**

These Questions are being framed for helping the students in the “FINAL Exams” Only (Remember for Internals the Question Paper is set by your respective teachers). Questions may be repeated, just to show students how VTU can frame Questions.

- ADMIN

MODULE - 1

1. Explain the main characteristics of the database approach versus the file processing approach. (8-Marks) (1a) (Dec.2017/Jan.2018)
2. Explain the three – scheme architecture with neat diagram. Why do we need mappings among scheme levels? How do different scheme definition languages support this architecture? (8-Marks) (1b) (Dec.2017/Jan.2018)
3. Discuss with examples, different types of architectures. (7-Marks) (2a) (Dec.2017/Jan.2018)
4. Draw an ER Diagram for a BANK database schema with at least five entity types. Also specify primary key and structural constraints. (9-Marks) (2b) (Dec.2017/Jan.2018)
5. Discuss the main characteristics of the database approach and how it differs from traditional file systems. (4-Marks) (1a) (June/July 2018)
6. Describe the three- schema architecture. Why do we need mapping among schema levels? (4-Marks) (1b) (June/July 2018)

7. Discuss various components of a DBMS, with a neat diagram. (8-Marks) (1c) (June/July 2018)
8. Define an Entity and Attribute. Explain the different types of attributes that occur in an ER-Diagram model, with an example. (6-Marks) (2a) (June/July 2018)
9. Define an ER diagram of an airline reservation system, taking into account at least five entities. Indicate all keys, constraints and assumptions that are made. (10-Marks) (2b) (June/July 2018)
10. What are the responsibilities of the DBA and Database Designer? (6-Marks) (1a) (Dec.2018/Jan.2019)
11. With neat diagram, explain “three schema Architecture” (5-Marks) (1b) (Dec.2018/Jan.2019)
12. Discuss the different types of user friendly interfaces and the types of user who typically use each. (5-Marks) (1c) (Dec.2018/Jan.2019)
13. Explain with block diagram the different phase of database design. (8-Marks) (2a) (Dec.2018/Jan.2019)
14. Draw an ER-Diagram of movie database. Assume your own entities (minimum 4) attributes and relationships. (8-Marks) (2b) (Dec.2018/Jan.2019)
15. Explain the component modules of DBMS and their interaction, with the help of a diagram. (10-Marks) (1a) (Dec.2017/Jan.2018|10-scheme)
16. Explain the different categories of End Users who access the database. (5-Marks) (1b) (Dec.2017/Jan.2018|10-scheme)
17. Explain the different types of languages and interfaces provided by DBMS. (5-Marks) (1c) (Dec.2017/Jan.2018|10-scheme)
18. Explain the main phases of database process, with the help of diagram, (10-Marks) (2a) (Dec.2017/Jan.2018|10-scheme)
19. Design an E-R diagram for keeping track of information about **AIRLINE** database taking into account at least FIVE entities. (10-Marks) (2b) (Dec.2017/Jan.2018|10-scheme)
20. Define:
 - i. Schema
 - ii. Data model

- iii. Database State
 - iv. Catalog
 - v. DBMS. (5-Marks)(1a) (June/July.2018|10-scheme)
21. What are the different types of End-Users? Discuss the main activities of each. (5-Marks) (1b) (June/July.2018|10-scheme)
22. Explain three schema architectures. (6-Marks) (1c) (June/July.2018|10-scheme)
23. List the advantages of DBMS. (4-Marks) (1d) (June/July.2018|10-scheme)
24. Write the different notation used in E-R diagram. (8-Marks) (2a) (June/July.2018|10-scheme)
25. Design an E-R diagram for keeping track of information about a **COMPANY** database taking into account of least five entities. (8-Marks) (2b) (June/July.2018|10-scheme)
26. Illustrate recursive relationship. (4-Marks) (2c) (June/July.2018|10-scheme)
27. Discuss the main characteristics of the database approach. How does it differ from traditional file system? (8-Marks) (1a) (Dec.2016/Jan.2017|10-scheme)
28. With a neat diagram, explain the component modules of DBMS and their interactions. (8-Marks) (1b) (Dec.2016/Jan.2017|10-scheme)
29. Define
- i. Snapshot
 - ii. Metadata
 - iii. Intention
 - iv. Database. (4-Marks) (1c) (Dec.2016/Jan.2017|10-scheme)
30. Design an ER diagram for an **EMPLOYEE** database with at least four entities considering all the constraints. (8-Marks) (2a) (Dec.2016/Jan.2017|10-scheme)
31. What are the structural constraints on a relationship type? Explain with examples. (4-Marks) (2b) (Dec.2016/Jan.2017|10-scheme)
32. Define
- i. Primary Key

- ii. Weak entity type
 - iii. Candidate Key
 - iv. Recursive relationship with an example. (8-Marks) (3c)
(Dec.2016/Jan.2017|10-scheme)
33. Explain with a neat diagram, the component modules of DBMS. (10-Marks) (1a) (June/July.2017|10-scheme)
34. Define DBMS. Discuss the advantages of DBMS over traditional file system. (6-Marks) (1b) (June/July.2017|10-scheme)
35. Explain additional implications of using database approach. (4-Marks) (1c) (June/July.2017|10-scheme)
36. Discuss the concepts related to structural constraints of relationship type with suitable examples. (10-Marks) (2a) (June/July.2017|10-scheme)
37. Write an E-R diagram for **HOSPITAL MANAGEMENT** considering at least four entities. (10-Marks) (2b) (June/July.2017|10-scheme)

**ANSWER SCIP FOR THESE
QUESTIONS WILL BE UPLOADED ASAP**

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THANK YOU
