

17. Explain the distinction between a type x and a reference type $\text{ref}(x)$.
18. What is Log disk ?
19. What is sparse index ?
20. What are the two scan algorithms to implement the selection operation ?
21. What is recursive partitioning ?
22. What is WANs ?

(8 × 2 = 16)

Part C

*Answer any six questions.
Each question carries 4 marks.*

23. Explain storage manager.
24. Define the concept of aggregation. Give two examples of where this concept is useful.
25. Explain the distinction between total and partial constraints.
26. Explain Generalized projection.
27. Explain SQL relation using the create table command.
28. Explain Magnetic-disk storage.
29. Describe the detail indexing database.
30. Explain shared disk.
31. Explain different server systems.

(6 × 4 = 24)

Part D

*Answer any two questions.
Each question carries 15 marks.*

32. Describe the Attributes in E-R model.
33. Explain Basic-structure of SQL queries.
34. Explain structured type and inheritance in SQL.
35. Explain server system Architectures.

(2 × 15 = 30)

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2015**Fourth Semester**

Vocational Course—Computer Science

DATABASE MANAGEMENT SYSTEMS

(For B.Sc. Mathematics Model II)

[2013 Admissions]

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.
Each question carries 1 mark.*

1. What is data-base management system ?
2. What is a database schema ?
3. What you meant by an entity set ?
4. When can you say that a domain is atomic ?
5. What you meant by a superkey ?
6. What is a Boolean type data ?
7. What is a query language ?
8. What is NAS ?
9. What is a query execution plan ?
10. What is a local transaction ?

(10 × 1 = 10)

Part B

*Answer any eight questions.
Each question carries 2 marks.*

11. What is data abstraction ?
12. Explain derived attribute.
13. Differentiate between weak and strong entity.
14. What are the two types of query languages ?
15. What is materialised views ?
16. Explain relational database.

Turn over