



DJ-1862

Second Year B. C. A. (Sem. III) Examination
September / October – 2007

Database Management System : Paper - 302 (DBMS)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृशवित्त निशानीवाणी विगतो उत्तरवडी पर अवश्य वपनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
S. Y. B. C. A. (Sem. 3)

Name of the Subject :
Database Management System : 302 (DBMS)

Subject Code No. : 1 8 6 2 Section No. (1, 2,.....): Nil

Seat No. : [] [] [] [] [] [] [] [] [] []

Student's Signature

(2) Marks are indicated to the right side of question.

1 Answer following : 14

- (a) What are prime and non – prime attributes?
- (b) What is multivalued dependency?
- (c) What is DDL?
- (d) Define weak entity set.
- (e) What is transitive functional dependency?
- (f) What is normalization?
- (g) What are the functions of file manager?

2 (a) Explain structure and architecture of DBMS. 8

OR

- (a) What is data dictionary? How the data dictionary is maintained? Discuss integrity related issues pertaining to Data Dictionary. 6
- (b) Describe the concept of Generalization, Specialization and Aggregation. 6

3 Write notes on following : (any three)

21

- 22 (i) Object Oriented Data Model
- (ii) Process of Normalisation
- 17 (iii) Data Abstractions
- (iv) Loss-less join Decomposition
- (v) Comparison of DBMS and File System

4 Answer following : (any two)

12

- 5 (a) Describe anomalies in database during insertion, deletion and updation.
- (b) What are the important issues related to decomposition?
- 6 (c) Explain various DML, DDL and DCL providing appropriate examples.

5 Consider following relations in database and solve the queries : (any three)

9

Bill-Master (Bill_no, Cast_code, Bill_date, Bill_amt, Discount, Final_Bill)

Cast_Master (Cast_code, Cast_name, Cast_address)

- (a) Name the customers who visited the shop and purchased material for more than five times.
- (b) Name the customers who have not purchased anything in last two weeks.
- (c) Calculate total Discount given in current month.
- (d) Display Name of Customers and total amount of purchase so far.
- (e) Display Bill details for those Customers who have purchased items for less than three times.