1. (a) What are the different case tools for system analyst?
(b) Define Entity, Entity Set. Give one example for each.
(c) Define structure chart with example.
(d) What is DDBMS? Explain them with help of diagram. 

[4 x 5 = 20]

SECTION-A

2. What do you mean by the term decision table? Explain extended entry decision table. Also Draw a decision table for the question given below:

Application for admission to an extension course is screened using the following rules. For admission a candidate should be sponsored by his employer and he should possess prescribed minimum academic qualifications. If his fee is also paid then he is sent a letter of admission. If his fee is not paid then he is sent a letter of provisional admission. In all other cases a letter of regret is sent for it.

3. (a) A manufacturer markets two products namely bulb and fan to three types of customers namely distributor, retailer, Government agencies. He has the following discount policy. If the order is from retailer for amount up to Rs 500 he allows 5% discount and if it is from distributor 7.5% discount is given. On retail order exceeding Rs 500 7.5% discount is allowed and if it is from distributor 10% discount is allowed. In all the above cases a flat discount of 6% is given for the Government agencies. The above policies applied for the product bulb.

A flat discount of 5% is given on the order for fans regardless of the amount purchased or customer classification.

Draw all types of decision table for it.

(b) What are the various objectives for designing output? (5)

4. What is decision tree? Write the steps of creating a decision tree with the help of any example. How it is different from decision table. (20)

SECTION-B

5(a) Draw an ER diagram having three entity sets customer, Loan, Bank. Also explain the various types of attributes with their respective symbols and examples. (12)

(b) What are the various components of data dictionary. Explain them with the help of example. (8)

6(a) What are the various symbols used in designing structure chart. Also explain coupling. (10)

(b) What is real time system. Explain its types with examples. (10)

7(a) Explain all types of Data fragmentation in DDBMS. (10)

(b) What is the graphical output in screen design? Explain in details. (10)