

amount is less than 5,000 and payment is made within 10 days, then no discount is offered on the invoice. If the payment is not made within 10 days, then full invoice amount has to be paid.

Draw Decision Tree and Decision Table for the above case.

#### Unit-IV

8. How Distributed Database Management Systems work ? Describe the major concerns of distributed data processing.
9. In a distributed system, data may be fragmented, and each fragment can have a number of replicas to increase data availability and reliability. Discuss the objectives that must be considered while designing the fragmentation and allocation of these fragments to different sites in a distributed system.

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Roll No. : .....

Total No. of Questions : 9 ]

[ Total No. of Pages : 4

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**B.B.A. 6th Semester (Supplementary)  
Examination, March-2021  
(New Scheme 2014-17)**

**SYSTEM ANALYSIS AND DESIGN  
Paper-BBAN-602**

*Time : Three Hours ]*

*[ Maximum Marks : 80*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note** :- Attempt *five* questions in all. Question No. 1 in (Section-A) is compulsory. Attempt four questions from Section-B selecting *one* question from each Unit. All questions carry equal marks.

#### **Section-A**

1. (a) What is Data Dictionary ?  
(b) Cite the difficulties in gathering accurate requirements from users.

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- (c) What is a Decision Tree ?
- (d) What are the different methods of information elicitation ?
- (e) List some of the fact finding techniques.
- (f) Specify tools for documentary procedures and decisions.
- (g) Specify the characteristics of real time systems.
- (h) What purpose does an ER diagram serve ?

### Section-B

#### Unit-I

- 2. Explain about information systems planning methodologies and tools for system development.
- 3. Explain the various types of feasibility studies required to be performed during the designing of system. Distinguish between technical and economic feasibility studies.

#### Unit-II

- 4. (a) What the merits of equipment need exploration in implementation by system analyst ?
- (b) What are criteria used to indentify a good form design ?

- 5. What factors decide the number of personnel required for system operations is made ? What are the important considerations while deciding the skills set/s required ?

### Unit-III

- 6. What are the differences between logical design and physical design ? Describe the various steps involved in logical design to system implementation.
- 7. (a) What is the significance of Data Dictionary ?
- (b) Consider a company offering certain discount on the total abmout of purchase. If the purchase amount is greater than 10,000 and the payment is made within 10 days, then 3% discount is offered on the total invoice amount. If total purchase amount is less than 10,000 and the payment is made within 10 days, then 2% discount is offered. And if the total