Daffodil International University

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Midterm Examination, Semester: Summer 2019
Course Code: CSE 321 (DAY), Course Title: System Analysis and Design
Section: All, Course Teachers: All

Time: 1.5 hours

Marks: 25

Answer any 3 of the following questions.

You must answer parts of a question sequentially. The figure in square brace at the right side of a question indicates the marks allocated to the questions.

1. a) What are Information systems? What are the major business processes or functions of Daffodil International University Library? [3]

   b) What are the roles of a system analyst? [2]

   c) What are the qualifications required to work as a system analyst? [3.33]

2. a) What do you understand by system analysis? What are the tools used for structural system analysis? [3]

   b) What is data dictionary? Why it is important regarding software project management? [2]

   c) What are the purposes of ATM Machine? How an ATM machine support in cash withdrawn process for a particular Bank? [3.33]

3. a) What is information gathering? How we gather information to analysis a system? Which of the following methods would you use and why? [3]

   b) What are the differences between questionnaires and interviews as an information gathering tool? [2]

   c) What are the steps an analyst should follow to design an information system? Explain using diagram. [3.33]

4. "BdFashion Ltd." is a fashion wares business company. They have 20 showrooms in Dhaka city and every showroom has several sales persons. They purchase finished dresses of men and women of all ages from different suppliers and sale those items to the registered or non-registered customers. All Purchases are controlled from the head office and distributes items to all showrooms based on their previous sales records. They have discount policy for the registered customers. They have three types of customer: Platinum, Golden and General. If a Platinum customer purchase items by less than 1000 taka then they will get 5 % discount and purchase items by more than or equal 1000 taka they will get 7 % discount. If a Golden customer purchase items by less than 1000 taka they will get 4 % discount and purchase items by more than or equal 1000 taka they will get 6 % discount. General customers will always get 2 % discount whatever they purchase.

   a) Draw the decision tree for the above discount policy. [3.33]

   b) Draw the DFD for the purchase and sales process of the above business. [5.0]