United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Mid Term Exam   Trimester: Fall 2021   Marks: 30   Time: 1 hr 45 mins

Code: CSI 311   Course Title: System Analysis & Design

Answer **ALL** of the following questions:

QUESTION 1 [CO3] 16

Suppose you are going to develop an online platform for providing used computer-laptop related products/services to the community. Customers can order for products or Services that are delivered to their doorsteps. To use the system, customers need to sign up and login into the system. Delivery men and service providers also need to do the same. All user information is stored in the USER_LIST table in the database. Product/Service providers can upload/update their product/services information in the platform, which are stored in the PRODUCT_SERVICES table. Customers can search for these products/services. Customers can place orders and the order information is stored in the ORDER_LIST table of the database. If the order is rejected by product/service providers due to unavailability, then the customer will be notified accordingly. If the order is accepted, then the corresponding product/service provider processes accordingly. In case of product delivery the delivery men delivers the product to the customers and notified to both customer and product providers accordingly. The deliver details are automatically saves in the DELIVERY_DETAIL file in the database.

a) Mention some major rules for drawing a DFD. Draw DATA FLOW DIAGRAM for the above scenario. [2+4]
b) Draw the USE CASE Diagram (having at least one "include" or "extend" connection) [3]
c) Write down the USE CASE Descriptive Form for one major Use Case**.** [4]
d) Draw the swimlane diagram for the above scenario. [3]

QUESTION 2 [CO1] 8

Suppose you have been assigned as a system analyst in the development of an ERP software system for a Large Private Hospital.

a) Define the system and mention the major functional units for the scenario mentioned in question 2. [2]
b) Mention the major tasks of the following SDLC method with respect to scenario mentioned in question2 : [3]
    i.   Planning
    ii. Maintenance

c) Write down the full form of DSS and CRM, also mention the major features or purposes of it. [3]

QUESTION 3   **[CO2]**   **6**

Suppose you are planning to develop a University Management System software, answer the following questions with that perspective:

    a) Mention the major sources of information to get the information about the system mentioned in question 3.   **[2]**

    b) Mention the major steps those you need to complete before finalizing the product specification or feature list fixation for the project mention in question 3.   **[2]**

    c) Compare between JAD vs Interview with respect to information gathering for the scenario mentioned in question 3.   **[2]**