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**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**University Examination 2016/2017**

**YEAR I SEMESTER II CONTIONOUS ASSESSMENT TEST FOR THE DEGREE OF MASTERS OF SCIENCE IN COMPUTER SYSTEMS**

**ICS 3209: Web Application Development**

**DATE: 27th March 2016 TIME: 1 hours**

**INSTRUCTIONS:** Attempt ALL Questions

**Assignment**

Consider the following Widget Order Form. Required:

1. Using a html, construct the form **[4 marks]**
2. Write a **CGI** code in Javascript that captures the data entered in the form then calculate the total order automatically as shown below.

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 **[6 marks]**

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**Question one**

1. Write a **HTML5** codes to create a simple form to capture the following information:
	* Cardholders Name
	* Card Number
	* Email address
	* Card Expiry Date

The program should perform the following validation checks using **HTML5**:

* + Cardholder Name must not be blank
	+ Card Number must be made up of only numbers
	+ Card Expiry Date must be valid a date – make sure the date, month and year are entered as numbers and that they are valid. **[4 marks]**
1. Using PHP Create a database called **BANKING** that contains two tables, **CUSTOMER** and **LOANS**. The customer table should contain the details in 1(a) above, Loans table should contain the details of the loans i.e **LoanID, Loan\_amount and Loans\_date** of the customers in the customer table above.

 **[6 marks]**

**Question two**

Consider the following database tables called **Customer and Loans** (**created in 1(b) above**) that resides in a computer database server called **Sacco\_Server** thatstores data about Sacco customer. The data stored in **Customer** table includes the **Card holder’s name, Card number, Email address and Expiry date**. The **Loans table** contains The **Loans ID, customer card number, Loans amount and loans date.** A connection to the database must be made through a username “**user**” and password “ **admin**”

 Table 1: CUSTOMER

|  |  |  |  |
| --- | --- | --- | --- |
| **Holder’s name** | **Card number** | **Email address** | **Expiry date** |
| **Peter Griffin** | **11111** | **peter@hotmail.com** | **18/12/2018** |
| **Glen Quaggmire** | **22222** | **glen@gmail.com** | **14/11/2018** |

 Table 2: LOANS

|  |  |  |  |
| --- | --- | --- | --- |
| **Loans ID** | **Cust Card number** | **Amount(Kshs)** | **Loans date** |
| **1** | **11111** | **Kshs.35,000** | **1/1/2015** |
| **2** | **22222** | **Kshs.25,000** | **2/2/2015** |

**Required:** Write **three CGI applications using** PHP that will perform the following:

**Note:** The connection script (i) should be written separately and included in the three CGI applications (**ii,iii,iv,v**)

1. Make a connection to the database **Sacco\_Server** using the details shown a above i.e. username “**user”**  and password “**admin**” **[3marks]**
2. Insert one row in the **customer** table and one row in the **loans** table **[4 marks]**
3. Retrieve all customers whose loans are between Kshs. 10,000 and Kshs. 30,000 from the database. The data should contain the following details: **Customer card number, Customer Name, Loans amount and Loans Amount**. **[6 marks]**
4. Update the loans amount by 25%. **[3 marks]**
5. Delete the customers who loans are between Kshs. 20,000 and Kshs. 30,000 **[4 marks]**

**END OF EXAMS – GOOD LUCK**