

### EFFAT COLLEGE OF ENGINEERING – COMPUTER SCIENCE DEPARTMENT

INSTRUCTOR NAME: Zain Balfagih		
COURSE NAME: Web Application Development	COURSE NUMBER: CS2111	SECTION: 1 ,2, 3
NUMBER OF PAGES: 5	NUMBER OF QUESTIONS: 4	Total Grade: 20

**20% Final exam + 20% final project.**

### Introduction:

Ms. Amal is a jewellery collector. She decided to utilize her passion with jewellery to a successful business. So, she decided to have a simple website that can help people to invest their money in jewelleries. So, she started to create a website for this purpose but she still needs your help. Our duty in this exam is to help Ms. Amal in her website.

Attached for you 4 files/folders as the following:

**a) index.php**

A PHP page (index.php) which is the landing page of the website.

**b) Images folder**

A folder (images) that includes all the images that you will need to use in some of the exam questions.

**c) CSS folder**

A folder (theme) which includes one CSS file that you will need to update later on.

**d) JavaScript folder**

A folder (JavaScript) that includes one JavaScript file.

All these files/folders are given to you as one compressed file called “final.zip”. To start the final exam you need to do the following:

- 1- Create a folder inside “htdocs” folder in your local server and name it with your ID number.
- 2- Extract all contents of “final.zip” into the folder you just created.
- 3- Make sure that your XAMPP control panel is working and both Apache server and SQL server are started.

In order to complete this exam, you are required to do the following:

### First Question: CSS (5 Marks)

You need to update the CSS file placed in CSS folder to change the home page formatting to look like the picture below (Figure 1):



Jewelry Type	QUANTITY (in grams)	Price
Gold (1 gram = 216.5 SAR)	<input type="text" value="6"/>	1299
Silver (1 gram = 2.72 SAR)	<input type="text" value="2"/>	5.44

Your Full Name:

Your Phone number:

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Figure 1 Main page after modifying the CSS file

### Second Question: JavaScript (5 Marks)

- (1) The form in main page has two input fields of type number. Add 'onchange()' function for each one of them to calculate the total price of gold/silver based on the number of grams entered by the user. The calculated price should be placed in price column of the table. The price of every gold gram is 216.5 SAR while the price of every silver gram is 2.72 SAR. For example, in Figure 1, the user entered 6 grams of gold and the calculator automatically calculated the price ( $6 \times 216.5 = 1299$ ).
- (2) The user can place an order to buy the specified grams in the form. In order to do that, the user must fill in the full name and phone number first. So, add "onsubmit()" function that notifies the user with an error message if the user placed a request without entering these two fields.

All these functions must be defined in gold.js file in JavaScript folder.

### Third Question: MySQL (3 Marks)

Every order placed by users must be saved in the database to be processed later on. So create a database called “gold”. In this database, create one table called “transaction” with the following details:

Field Name	Type	Description
<b>ID</b>	AutoNumber	This field stores the ID of every request which automatically incremented by 1.
<b>gold</b>	int	This field stores how many grams of gold are requested.
<b>silver</b>	int	This field stores how many grams of silver are requested.
<b>customerName</b>	varchar	This field stores the name of the customer who placed the order.
<b>customerPhone</b>	varchar	This field stores the phone of the customer who placed the order.



**Fourth Question: PHP + HTML (7 Marks)**

- (1) In the index.php, once the user clicks the “Place an Order” button, the data entered need to be stored in the “transaction” table in “gold” database. You might need to create an additional PHP page that confirms to the user that the order was placed correctly.
- (2) Create a new web page and name it “viewtransactions.php”. This page will have a similar style to index.php. The main purpose of this web page is to view all requests placed on the system so far.

**Submit your work in one compressed file that contains all files and folders of the website.**

**Good Luck**