## Department of Electrical Engineering Mid – Term Assignment Spring 2020

Date: 13/04/2020

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Course Title:	Programming Fundamentals	Module:	02
Instructor:	engg. Waqas	Total Marks:	30

## **Student Details**

Name:	Abdullah	Student ID:	16194

			Marks 5						
Q1.	(a)	Write a program in python where you input two integer values from user and determine if the first							
		integer is the multiple of the second integer.	CLO 1						
	(b)	Write a program in python for a shopping mall to determine if the customer has exceeded the	Marks 5 CLO 1						
		credit limit on a charge account.							
		Program should input the following facts in five variables							
		1. Account number							
		2. Balance at the beginning of month (Beginning balance)							
		3. total of all items charged by customer this month (charges)							
		4. total of all credits (credits) 5. allowed credit limit							
		Calculate the new balance							
		New balance = Beginning balance + charges – credits							
		Your program must determine if the new balance exceeds the allowed credit limit. If credit							
		limit is exceeded then program should display the message "Credit Limit exceeded."							
Q2.	(a)	Steps that involve precise sequence to solve a problem is called	Marks 14						
Q2.	(α)	a. Statement b. Program	CLO 1						
		c. Utility d. Routine	CLO						
		2. In an if structure statements are executed only,							
		a. When the condition is false b. When it contain arithmetic operators							
		c. When it contain logical operators d. When the condition is true							
		3. Which of the following can not be a variable name?							
		a. area barea							
		c. 10area d. area2							
		4. Which loop process is best when the number of iterations is known?							
		a. for b. while							
		c. again d. all looping processes require that the							
		iterations be known							
		5. Which special character is in the end of a string to indicate the end?							
		a. new line b. tab							
		c. null d. carriage return							
		6. A total of bytes are occupied by the following variable.							
		txt = "programming fundamentals"							
		7. Commenting the code							
		a. Makes a program easy to understand b. Make programs heavy, i.e. more space							
		for others. is needed for executable.							
02	(a)	c. Makes it difficult to compile d. All of the given options	Marks 2						
Q3.	(a)	Write a program in python that will create and display the following series in the output using the formula $2x^2 - 3x$ :							
	(b)	65, 44, 27, 14, 5, 0, -1, 2, 9, 20 You have the following python code, draw the flow chart of the whole code							
	(0)	numbers = range(10,20)							
		for i in numbers:							
		sum = sum + i							
		print("Total Sum = ", sum)							
		print("1 otal Sum = ", sum)							

## QNO 2 (Part b)

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the account numbers: ')

begining balance = int (input ('Balance at begining of the month: '))

Charges = int(input('iotal of the all item Charged Castomer this month:'))

Credit = int (input ('Total of all (redits: ))

(redit\_limit = int (input ('Allowed (redits limit: ))

New-balance = begining-balance + Charges-Credit

Print ('Account:, account yumber)

Print ('redit Limit: > credit limit)



