## Department of Electrical Engineering Mid – Term Assignment Spring 2020 Date: 13/04/2020

## **Course Details**

Course Title:	Programming Fundamentals	Module:	02
Instructor:		Total Marks:	30

## **Student Details**

Name:

Mansoor jadoon

Student ID:

16637

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.	Marks 5 CLO 1			
	(b)	Write a program in python for a shopping mall to determine if the customer has exceeded the				
	(0)	credit limit on a charge account.				
		Program should input the following facts in five variables				
		1. Account number				
		<ol> <li>Account number</li> <li>Balance at the beginning of month (Beginning balance)</li> </ol>				
		3. total of all items charged by customer this month (charges)				
		<ul> <li>4. total of all credits (credits)</li> </ul>				
		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)	1. Steps that involve precise sequence to solve a problem is called	Marks 14			
<b>~</b>	(4)	a. Statement b. Program	CLO 1			
		c. Utility d. Routine	0101			
		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 b. area				
		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.				
		c. Makes it difficult to compile d. All of the given options				
Q3.	(a)	Write a program in python that will create and display the following series in the output using the	Marks 2			
		formula $2x^2 - 3x$ :	CLO 1			
		65, 44, 27, 14, 5, 0, -1, 2, 9, 20				
	(b)	You have the following python code, draw the flow chart of the whole code				
		numbers = $range(10,20)$				
		sum = 0				
		for i in numbers:				
		sum = sum + i				
		print("Total Sum = ", sum)				

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actives int (input ( enter the account numbers ")) begbal = "it ( "put (" enter the beginning balance :")) tReng = int (input ("arter the total charges: ")). t Rend = "int ("input (" enter the total gred "ts:")) crdlimt = "int ("input (" enter the credit limit ;")). + Ralg newbar = begbar + + Rchg - + Rerd if (newbal > crdlimt): print ("Account :", actubr ) print (" credit limiti", exclimit)

A 6) 21+1 = 2 total = 0 For M in range (-5,5): total - = 2 × (n × n) - (3 × n).

Q#3 D (Start) number 10 to 0=10 to 19 Total sum, su