**Program:** PG

Term and Year: Spring, 2019-2020

Course Code: PGMath150

**Course Title:** Computer Programing and applications

**Exam Type:** Practical Exam

Time Allowed: 1hour Total Points: 30

Professor(s): Dr. Shaimaa Aly Elmorsy



ID	:	
Na	me:	
Aı	<u>nswer</u>	all of the following:
<b>^</b> -	1:	A . Oh a a a tha a a mad a manage (A maint a a h)
Qι	lestion	1 :- Choose the correct answer: (1 point each)
1.		bits are used to represent a symbol in standards ASCII code.
		7 bits
	b)	8 bits
	c)	12 bits
	d)	32 bits
2.		bits are used to represent a symbol in Extends ASCII code.
		7 bits
	b)	8 bits
	c)	12 bits
	d)	32 bits
3.		bits are used to represent a symbol in Unicode.
	a)	7 bits
	b)	8 bits
	c)	12 bits
	d)	32 bits
4.		tual coding of a program is done by a(n)
		systems analyst
		Programmer
	,	end-user
	a)	database administrator
5.		is an example of 4th generation language
		Python
		SQL
	c)	Java
	d)	COBOL

6.	5is an example of 5th generation language		
	a) Python		
	b) SQL		
	c) Java d) COBOL		
	d) COBOL		
7.	Program objectives, desired outputs, needed inputs, and processing requirements are all recorded in the		
	a) program tracking log		
	b) project management database		
	c) program specifications document		
	d) management information system		
8.	The information software produces after it has processed the input is called		
	<ul><li>a) flowchart</li><li>b) output</li></ul>		
	c) objective		
	d) prototype		
0			
9.	The information that a program requires in order to accomplish its objective is called the a) data		
	b) contribution		
	c) effort		
	d) input		
10. Flowcharts and pseudocode are examples of tools used in the program phase.			
	a) specification		
	<ul><li>b) design</li><li>c) code</li></ul>		
	d) test		
Question 2:- Answer with true/ false (1 point each)			
1.	. Systems analysts create the software required for an information system. (		
2.	Programmer create the software required for an information system. ( )		
3.	In the program specification step, the objectives, outputs, inputs, and processing requirements are determined. ( )		
4.	You should determine the input for a program before determining its output. ( )		
5.	The program specification document includes required input and program objectives. ( )		
6.	. "Debugging" refers to the process of eliminating syntax but not logic errors. (		
7.	When a program has a syntax error, it will still run, but will produce unexpected results. ( )		
8.	When a program has a logic error, it will still run, but will produce unexpected results. ( )		
9.	When a program has a run-time error, it will never run. (		

10. A logic error could result from an incorrect calculation made by the programmer. (

## **Question 3:- Answer the following: (2 point each)**

- $_{1.}$   $(12)_{10} \rightarrow ($   $)_{2}$
- $_{2.}$   $(1111111)_2 \rightarrow ($   $)_{10}$
- 3.  $(101)2 + (110)2 = (\underline{\phantom{0}})2$  using 3 bits
- 4.  $(1\ 1101)2 + (1110)2 = (\underline{\phantom{0}})2$  using 5 bits
- 5.  $(1\ 1111)2 + (1\ 0111)2 = (\underline{\phantom{0}})2$  using 6 bits

GOOD LUCK