Department of Computer Science & Engineering

University of Asia Pacific (UAP)

Program: B.Sc. in Computer Science and Engineering

	Final Examination		Fall 2021	3 rd Year 1 st Semester	
	Cours	e Code: CSE 309	Course Title: Object-Oriented Programming II: Visual and Web Programming	Credits: 3	
	Full Marks: 150		Duration: 3 Hours		
	1.	shown in the margin	Questions. Answer all of them. All questions are of equal valus. alators are not allowed.	ue. Part marks are	
!.	,	Perform the following. Take an integer 'n	ng operations using Python Programming Language—		15
			on from 0 to that number using a for-loop.		
	i	iii. Print the multipli	cation from 1 to that number using a while-loop.		
	i	iv. Determine wheth	er the number is odd or even using conditional statem	ents.	
	b)	Create a function that as well as complex s	at takes the parameter of a quadratic equation and prin solution of that equation.	ts out the real	10
			² +bx+c=0, then the function parameters are a, b, and c to print the solution—	. Use the	
			$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$		
2.	a)	Explain the differer	nce between list, tuples, set, and dictionaries with codin	g examples.	15
	b)	Define a class that le cylinder and another	has two functions. One function will return the surface or function will return the volume of the cylinder.	area of a	5+5
		The volume of the	the cylinder is defined as, $A = 2\pi r(r + h)$. cylinder is, $V = \pi r^2 h$. The base of the cylinder. ylinder.		
3.	a) b)	Design an HTML p Differentiate between with an Image.	page containing a table that has 3 columns and 4 rows. een margin, padding, and border using a CSS code exam	nple associated	8
	c)	Demonstrate a cod	e that will insert 10 random integers into an empty list.		10

3rd Year 1st

- 4. * a) Write a JavaScript code to iteratively print the elements of an array.
 - b) Mention the necessary commands to run the server using Django.

OR,

- a) Write a JavaScript code to print the multiplication of 'n' numbers using a function.
- b) Mention the necessary commands to run a Web App using Django.
- 5. a) Create a function that will take two lists as parameters. The first list will contain some persons' names and the second list will contain the ages of those persons in order. The function will return a dictionary containing only the persons who are 18 years old or more. Here the persons' names will be the keys of the dictionary and ages will be the values of those keys.
 - b) Write an HTML code to create a link using an Image.
- 6. (a) Give an example of how could we run external CSS and JavaScript files using HTML.
 - b) Write a CSS code to create a three-layer depth background.

OR,

- 6. a) Demonstrate 'div' and 'layout' tags using examples.
 - b) Write a CSS code to demonstrate various relation position of an Image or Paragraph.