II B.Tech - II Semester - Regular Examinations - MAY 2024

ADVANCED PYTHON PROGRAMMING (HONORS in COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

Image: BL CO Marks UNIT-I 1 a) Develop suitable python code to display the following operations using a deck of cards. Initial deck of cards, shuffled deck of cards, cards in Hands, and remaining deck of cards, cards. L3 CO2 7 M b) Explain different functions for converting floating-point values to decimal number with suitable Python code snippet. L2 CO1 7 M cards 0 0 0 0 0 0 b) Explain different functions for converting floating-point values to decimal number with suitable Python code snippet. L2 CO1 7 M cards 0 0 0 0 0 0 common of the decimal values to keep values within the desired precision. Explain with suitable python code. 0 0 0 0 b) Explain the following functions with suitable python code. 0 0 8 M				BL	СО	Max.			
1a)Develop suitable python code to display the following operations using a deck of cards. Initial deck of cards, shuffled deck of cards, cards in Hands, and remaining deck of cards.L3CO27 Mb)Explain different functions for converting floating-point values to decimal number with suitable Python code snippet.L2CO17 M2a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.CO16 Mb)Explain the following functions with suitable python code.L2CO16 M						Marks			
1 1	UNIT-I								
Initial deck of cards, shuffled deck of cards, cards in Hands, and remaining deck of cards.Imitial deck of cards, shuffled deck of cards, cards in Hands, and remaining deck of cards.b) Explain different functions for converting floating-point values to decimal number with suitable Python code snippet.L2CO17 M2a) Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.CO16 Mb) Explain the following functions with suitable python code.L2CO18 M	1	a)	Develop suitable python code to display the	L3	CO2	7 M			
acards in Hands, and remaining deck of cards.bbExplain different functions for converting floating-point values to decimal number with suitable Python code snippet.L2CO17 MOR2a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.L2CO16 Mb)Explain the following functions with suitable python code.L2CO16 M			following operations using a deck of cards.						
cards.cards.b)Explain different functions for converting floating-point values to decimal number with suitable Python code snippet.L2CO17 MOR2 a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.L2CO16 Mb)Explain the following functions with suitable python code.L2CO18 M			Initial deck of cards, shuffled deck of cards,						
b)Explain different functions for converting floating-point values to decimal number with suitable Python code snippet.L2CO17 MOR2a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.L2CO16 Mb)Explain the following functions with suitable python code.L2CO18 M			cards in Hands, and remaining deck of						
iiiiiifloating-point values to decimal number with suitable Python code snippet.iiiOR2a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.CO16 Mb)Explain the following functions with suitable python code.L2CO18 M			cards.						
with suitable Python code snippet.OR2a)Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code.L2CO16 Mb)Explain the following functions with suitable python code.L2CO18 M		b)	Explain different functions for converting	L2	CO1	7 M			
OR CO1 6 M 2 a) Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code. L2 CO1 6 M b) Explain the following functions with suitable python code. L2 CO1 8 M			floating-point values to decimal number						
2 a) Express several options for rounding the decimal values to keep values within the desired precision. Explain with suitable python code. L2 CO1 6 M b) Explain the following functions with suitable python code. L2 CO1 8 M			with suitable Python code snippet.						
decimal values to keep values within the desired precision. Explain with suitable python code.Image: Constraint of the suitable box the suitable python code.b)Explain the following functions with suitable python code.L2CO18 M		OR							
desired precision. Explain with suitable python code.Image: Constraint of the suitable b)Image: Constraint of the suitable b)b)Explain the following functions with suitable python code.L2CO18 M	2	a)	Express several options for rounding the	L2	CO1	6 M			
python code.Image: subscript of the subscript of			decimal values to keep values within the						
b) Explain the following functions with L2 CO1 8 M suitable python code.			desired precision. Explain with suitable						
suitable python code.			python code.						
		b)	Explain the following functions with	L2	CO1	8 M			
sum(), fsum(), gamma(), lgamma()			suitable python code.						
			<pre>sum(), fsum(), gamma(), lgamma()</pre>						

3					
	a)	Develop the python code to,	L3	CO2	5 M
		i) Format the text using fill().			
		ii) Remove Existing Indentation			
	b)	Explain the following with suitable	L2	CO2	9 M
		description.			
		i) Regular Expression Escape Codes.			
		ii) Regular Expression Anchoring Codes.			
		iii) Regular Expression Flag Abbreviations.			
		OR			
4	a)	Explain the result of Combining Dedent and	L4	CO2	5 M
		Fill with suitable python code.			
	b)	Explain about difflib module that contains	L2	CO2	9 M
		tools for computing and working with			
		differences between sequences.			
		UNIT-III			
5	a)	"The functools module provides tools for	L4	CO3	7 M
		adapting or extending functions and other			
		callable objects, without completely			
		rewriting them". Justify your answer with			
		suitable Python code.			
	b)	Explain signaling with threads using	L2	CO3	7 M
		suitable python code.			
		OR			
6	a)	Explain different functions that work with	L2	CO3	7 M
		sequence data sets in itertools module.			
	b)	Compare Daemon and Non-Daemon	L2	CO3	7 M
		Threads.			

		UNIT-IV				
7	a)	Explain different container data types of	L2	CO4	7 M	
		collections module.				
	b)	Develop python program to create minheap	L3	CO4	7 M	
		and explain code with suitable example.				
		OR				
8	a)	Define array. Write a python code to write	L2	CO4	8 M	
		and read array from files using built-in				
		methods.				
	b)	Explain how to insert items into a list in	L3	CO4	6 M	
		sorted order with python code.				
	1	UNIT-V		,		
9	a)	Explain the implementation of the following	L3	CO5	8 M	
		data structures in python programming.				
		i) Basic FIFO Queue.				
		ii) LIFO Queue.		<u> </u>		
	b)	Interpret whether it is more convenient to		CO5	6 M	
		use a weakref proxy rather than a weakref				
		reference.				
10	a)	What is struct module? Explain how the	L2	CO5	8 M	
		functions of it are used for converting				
	1.)	binary data to native Python data types.	1.0	005		
	b)		L2	CO5	6 M	
		in python programming language.				
		i) pprint(), ii) pformat(),				
		iii) deepcopy()				