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May 2024 (ENDSEM) EXAM

F.Y.B. TECH. (SEMESTER - II)

COURSE Problem Solving and Python Programming Branch: CSE (AI) NAME:

COURSE CODE: CA12233

(PATTERN 2023)

Time: [1Hr. 30 Min]

[Max. Marks: 40]

- (*) Instructions to candidates:
- 1) Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data wherever required
- 4) All questions are compulsory. Solve any one sub question from each Question 1 and 2 and any three sub questions each from Questions 3 and 4.

Q. No.	Question Description	Max.	СО	BT Level
		Marks	mapped	Di Bever
Q.1	a) List out different techniques used in problem solving	[5]	1	Understand
	with summarization of each one. Illustrate the approach			
	of solving a problem about finding minimum element in			
	a list with pseudo code.			
	b) Interpret Object Oriented approach used in solving	[5]	1	Understand
	the computational problems. Give Student information			
ţ	system as one of the examples of Object Oriented			
	approach with detail pseudo codes.	ļ		
Q2	a) Identify different data types supported by python with	[5]	2	Apply
	examples utilizing each data types.			
	b) Explain slicing operators in python programming	[5]	2	Apply
	language with string related examples illustrating its			
-	utilization.	1		
Q.3	a) Develop the python program examples utilizing while	[5]	3	Apply
	loop, break and continue statements and examine each one in detail.			
	one in detail.			
	b) Make use of user defined function constructs and			
	write a python program which contains a function to	r=1		
	generate Fibonacci series using a list.	[5]	3	Apply
	Berrand I morrador deried denig a list,			
	c) Illustrate the utilization of recursion in program			
	developments with a python program to generate			
	factorial of the given number.	[5]	3	Apply
		[-]		11ppiy
		·	1	1

program to array of int Q.4 a) Examine in python? data type?	ambda function approach and write a Python count the even and odd numbers in a given egers. how the values stored in a list are accessed Should the elements of a list be of the same	[5] [5]	3	Apply
in python? data type?			4	
b) Illustrat			·	Apply
utilization programs.	e how python's dictionaries store data with of three different data types in example		4	Apply
	he use of tuples as compare to list in python How to add elements to the tuple illustrate le code?	,	4	Apply
data struct	the addition and deletion operations in a list ure with example python program containing to interpret the working details.		4	Apply