Reg. No.																
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Question Paper Code 13747

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2025

Second Semester

Computer Science and Engineering 20ESIT202 – PYTHON PROGRAMMING

Regulations - 2020

Du	ration: 3 Hours	Max. Ma	arks:	100					
	$PART - A (MCQ) (10 \times 1 = 10 Marks)$	Marks	<i>K</i> –	co					
	Answer ALL Questions	Murks							
1.	Code block indicated in python using	1	K1	CO1					
	(a) Brackets (b) Indentation (c) key (d) none of the above								
2.	The output of the following code snippet is	1	<i>K</i> 2	CO1					
	print(type(5/2))								
	print(type(5//2))								
	(a) float and int (b) int and float (c) float and float (d) int and int	_		~~*					
3.	The syntax of for loop in python	1	<i>K</i> 2	CO2					
	(a) for item in sequence: (b) for item in range(n):								
	(c) for index in range(len(sequence)): (d) All of the above	1	V1	CO2					
4.	The purpose of pass statement in python	1	K1	CO2					
	(a) to exit from a loop prematurely								
	(b) to skip the current iteration of a loop								
	(c) to execute a block of code if a condition is false								
5.	(d) to do nothing and act as a placeholder Which of the following statement is true about packages in python?	1	K1	CO3					
3.	(a) packages are collection of modules	1	***	005					
	(b) packages are collection of functions								
	(c) packages are used for mathematical operations								
	(d) packages are used for string manipulation								
6.	How can you create a python package?	1	K1	CO3					
•	(a) by creating a directory with a specialinitpy file								
	(b) by creating a text file with a list of module names								
	(c) by using the package keyword followed by the package name								
	(d) by importing modules from other packages								
7.	The keyword used to catch exceptions in python is	1	<i>K1</i>	CO4					
	(a) try (b) catch (c) except (d) handle								
8.	Which of the following is not a standard python exception?	1	<i>K</i> 2	CO4					
	(a) KeyError (b) ValueException (c) IndexError (d) TypeError								
9.	The correct way to plot a line graph is	1	<i>K1</i>	CO5					
	(a) $plot(x,y)$ (b) $plt.plot(x,y)$ (c) $plt(x,y)$ (d) $plot.plt(x,y)$								
10.		1	K1	CO6					
	(a) comma separated values (b) comma separated vertex								
	(c) comma separated variables (d) comma separate value								
	DADT D (12 2 24 N 1								
PART - B $(12 \times 2 = 24 \text{ Marks})$									
11	Answer ALL Questions Define Membership operators in Python.	2	K1	CO1					
	· ·								
12.	List out standard data types in Python.	2	K1	CO1					

13.	Find the result of the following expression in python 2**3+5**2									
14.	Illustrate string slicing with an example.									
	List the importance of fruitful functions.				CO3					
16.	•				CO3					
	. Illustrate command line arguments with an example.				CO4					
	8. Define exception with an example.				CO4					
	19. Define Pandas Series with an example.				CO5					
	20. Define Data Frame with an example.									
	21. List some python packages.				CO6					
		a program for student class.	2	K2	CO6					
$PART - C (6 \times 11 = 66 Marks)$										
23.	۵)	Answer ALL Questions Explain Conditional if, alternative if, and chained conditional statements with	11	K2	CO1					
23.	a)	syntax, flowchart and example Python Programs.		112	001					
		OR								
	b)	Explain for loop and while loop in Python with its syntax, flowchart and example	11	K2	CO1					
		Programs.								
24.	a)	Explain in detail about set operations and methods with suitable examples.	11	K2	CO2					
24.	a)	OR			002					
	b)	Explain the different operations and methods in dictionaries with suitable	11	<i>K</i> 2	CO2					
	0)	examples.								
25.	a) (i)	Write a recursive algorithm to find factorial of a given number.	6	K2	CO3					
	(ii)	Expalin list comprehension with example.	5	K2	CO3					
	OR									
	b)	Define modules in Python. Write down the steps to import them. Explain the	11	K2	CO3					
		concept by creating and importing the module.								
26.	a)	Explain in brief the file handling methods available in python with appropriate	11	K2	CO4					
20.	a)	example.								
		OR								
	b)	Illustrate the exception handling methods available in python.	11	<i>K</i> 2	CO4					
27.	a) (i)	Explain Broadcasting in Numpy Array Operations.	6	<i>K3</i>	CO5					
	(ii)	Explain Array Indexing in Numpy.	5	<i>K3</i>	CO5					
		OR								
	b)	Explain Matplotlib and display of different plots with examples.	11	<i>K3</i>	CO5					
			, ,	77.0	C O.					
28.	a)	write a python program to mastrate paone, protected and private access mounter	11	<i>K3</i>	CO6					
		in a class. OR								
	b)	Write a python program for solving linear system of equations.	11	К3	CO6					
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