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Question Paper Code: U3828

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Third Semester

Electronics and Communication Engineering

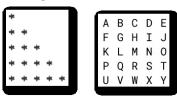
	21UIT328	- FUNDAMENTAL	S OF PYTHON PRO	OGRAMMING				
		(Regula	ations 2021)					
Duration: Three hours			Maximum: 100 Marks					
		Answer A	LL Questions					
PART A - $(10 \times 1 = 10 \text{ Marks})$								
1.	What is the data type	e of (1)?			CO1- U			
	(a) Tuple	(b) Integer	(c) List	(d) Both tuple and	integer			
2.	What will be the outp	out of the following l	Python statement?		CO1- U			
	(a) bc	(b) abc	(c) a	(d) bca				
3.	3. Which of the following refers to mathematical function?							
	(a) sqrt	(b) rhombus	(c) add	(d) avg				
4.	What will be the outp		CO1- U					
	round(4.576)							
	(a) 4.5	(b) 5	(c) 4	(d) 4.6				
5. Which of the following is a Python tuple?					CO1- U			
	(a) [1,2,3]	(b) (1,2,3)	(c) {1,2,3}	(d) {}				
6.	What will be the output of the following Python code?							
	>> t1 = (1, 2, 4, 3)							
	>>t2=(1, 2, 3, 4)							
	>>>t1 < t2							
	(a) True	(b) False	(c) Error	(d) None of thes	e			
7.	In which year was th		CO1- U					
	(a) 1995	(b) 1972	(c) 1981	(d) 1989				

8.	What will the following code print? print("Hello, " + "world!")						CO1- U		
	(a) I	Hello, world!	(b) Hello + wor	d! (c) world!"	"Hello,	(d) Erro	or		
9.	Whi	ich are the adva	ntages of functions	in python?				CO1- U	
	(a) I	Reducing duplic	eation of code (b)) Decomposing c	complex p	roblems i	into simple	rpieces	
	(c) I	improving clarit	y of the code (d)) All the above					
10.	To vin it		lowing the "in" ope	erator can be use	d to check	if an ite	m is	CO1- U	
	(a) I	Lists	(b) Dictionary	(c) Tuple	S	(d) A	All of the a	above	
			PART – E	3 (5 x 2= 10 Mar	ks)				
11.	Write a python coding to find the sum of n natural numbers CO2 - Ap						2 - App		
12.	Wri	te the syntax an	d usage of for loop				CO	1 - U	
13.	What is meant by module in python? List some built in modules in python						n CO	CO1 - U	
14.	Explain how to create a dictionary in python?						CO	CO1 - U	
15.	. Write a python code snippet to add a new key-value pair to a dictionary. CO2					2 - App			
			PART –	$-C (5 \times 16 = 80 \text{ N})$	Marks)				
16.	(a)	types in detail Accept a thr divisible by 10 is divisible by is divisible by	with suitable example e-digit number for the print "Division 50 then print "Division 20 then print "Division 20 then print "Divisible by 10 then print in O	ples. from the user. sible by 100", elsisible by 50", elsivisible by 20", int "Divisible by	The number of th	ber is umber umber if the	CO2-App	(16)	
	(b)	interval.	thon program to progra				CO2-App	(16)	
17.	(a)	scenario with Grade Classifi	on code for the b suitable syntax & fl cation: If the score tween 90 and 80, it	owchart. e is 90 or greater	r, it's an "A	A.", If	CO2-App	(16)	

 $80\ and\ 70,$ it's a "C.", If the score is between $70\ and\ 60,$ and it's a

"D." If the score is below 50, it's an "F."

(b) Write a python program for the below patterns and also explain CO2-App its iteration in detail using a flowchart.



18. (a) Explain in detail about function arguments in python and its types CO1 - U with suitable example. (16)

Or

- (b) What is modules and package? Explain about modules and CO1 U package with example? (16)
- 19. (a) Explain in detail about list operations with suitable examples. CO1 U (16)
 Or
 - (b) Define tuples in python. How are tuples different from lists? Give CO1 U an example of a tuple and explain why they are immutable.
- 20. (a) Differentiate list, tuple, set and dictionary in python with suitable CO1 U (16) example.

Or

(b) Explain in detail about various string methods in python with CO1 - U suitable example. (16)