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Total No	0. 0	f Questions : 8] SEAT No. :							
P-366	4	[Total No. of Pages :	3						
		[6001]-4008							
	F.E. (Semester - II)								
PROGRAMMING AND PROBLEM SOLVING									
		(2019 Pattern) (110005)							
Time: 2	21/2	Hours] [Max. Marks : 70	9						
Instruct	ions	s to the candidates:							
1		Question one is compulsory.							
2		Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8.							
3		Neat diagrams must be wherever necessary.							
4) 1	Assume suitable data wherever necessary.							
Q1) a)	1	Explain in-built and user defined functions with syntax and suitable	A						
Q1 / u)		example. [6]							
b)	V .	Explain the following terms with suitable examples. [6]]						
	j	i) local variable							
	j	ii) global variable							
c)	,	Write a program to check whether a number is prime or not using function	۱.						
,		[5]							
		OR	7						
Q2) a)]	Explain the following types of function arguments with examples:]						
	j	i) positional arguments							
	j	ii) variable length arguments							
b)]	Explain different ways of importing an in-built module in python with	1						
		suitable example. [6]]						
c)	,	Write a program to find cube of a number using lambda function. [5]]						
		2							
Q3) a)	•	Justify strings are immutable with example. [6]]						
b)]	Explain the following with suitable example. [6]]						
	j	i) ord() and chr() function							
	j	ii) in and not in operators on string							
		P.T.O)						
		9.7	•						

	c)	What is the output of the following statement for the given string?	[5]
		S = "Programming and Problem Solving"	
		i) print(S[:11])	
		ii) print(S[::-1])	
		iii) print("And" not in S)	
		iv) print(S[4])	
		v) print (S[9:10])	
		OR	
Q4)	a)	Explana string format operator with suitable example.	[6]
	b)	Explain following string methods with example.	[6]
		i) title()	
		ii) startswith()	
		iii) zfill()	
	c)	Write a program to display a string and count characters in the s	
		using a loop.	[5]
a = :			
Q 5)	a)	Explain the following Programming Paradigms in detail.	[6]
		i) Monolithic Programming	
		ii) Structured Programming	2
		iii) Object Oriented Programming	
	b)	Explain the following concepts with example.	[6]
		i) public members	
		ii) private members	
	c)	Write a python program to create a class Student with the attributes North roll no and age and display data of 4 students	ame, [6]
		OR	լսյ
Q6)	a)	Explain any three object oriented features in brief	[6]
20)	b)	Explain class method and class variable with suitable example.	[6]
	c)	Write a program to calculate area of triangle using a class.	[6]
		Title a program to calculate area of triangle using a class.	լսյ
		A.	

Q7) a)	What is a file? Explain relative and absolute path of a file.	[6]
b)	Explain the following file handling methods.	[6]
	i) write()	
	ii) writelines()	
	ii) close()	
c)	Explain file access modes in brief.	[6]
	OR	
Q8) a)	Explain different directory methods with example.	[6]
b)	Differentiate between text and binary files.	[6]
c)	Explain the following dictionary methods. i) update() ii) keys() iii) pop()	[6]
	i) update()	
	ii) keys()	
	jii) pop()	
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