PA-1684

[5931] 1007

F.E. (Semester - I)

PROGRAMMING AND PROBLEM SOLVING (2019 Pattern) (110005)

Time	:1E	Hour] [Max. Marks:	30
		ons to the Sandidates:	
	1)	Answer Q.1 or Q.2, Q.3 or Q.4.	
	2)	Neat diagrams must be wherever necessary.	
QI)	a)	List different program design tools? Explain an algorithm with exam	ple.
			[3]
	b)	What are the characteristics of an argorithm?	[4]
	c)	Explain brief history of python ptogramming language and list differ	ent
		software developed in Python	[3]
	d)	Explain any five features of python programming language.	[5]
		OR	
Q2)	a)	Write a pseudo code for factorial of a number.	[3]
	b)	What are the different collection literals in Python?	1
	c)	What do you mean by flow-chart? Explain different flowchart symbol	ols.
			[3]
	d)	Explain any five categories of operators in python with examples	. [5]
23)	a)	Explain the following conditional branching statements with examp	oles.
			[3]
		i) If ii) if else iii) if elif else	
	b)	Explain different dictionary methods	[4]
	c)	What do you mean by nested loops? Explain with example.	[3]
	d)	Write a program for prime number.	[5]
		OR S.	

