Duration: 2.5 Hours	H210NPP	Mai	rks:- 75
Note:- 1) All questions are compulsory			
2) All questions carry equal marks			
3) Figures to the right indicate maxi	mum marks.		
Q.1 Attempt any four of the following: (ar	ny 4 )		(20 M)
1) What is Python? Explain its features.	13 - 7		(=====)
2) Explain input() function with example.			
3) Explain for loop with example.			
4) Write short note on python comments.			
5) What is variable? Write the rules for declar	ing variable		
6) Write a program on following pattern:-	mg variable.		
o) write a program on following pattern:-			
2 2			
3 3 3		4	
4 4 4 4	•		
Q.2) Attempt any four of the following: (a	ny 4)		(20 M)
1) What are logical operators? Explain with e			(20112)
2) What is Numpy array? Explain with exam	15		
3) What are identity operators? Explain with			
4) What is built in function? list ant 5 built in		ė	
5) Explain insertion, search and deletion ope		•	
6) Write a python program to sum all the item			
of write a python program to sum an the item	ns in a rise using function.		
Q.3) Attempt any four of the following: (a	ny 4)		(20  M)
1) What is list? Explain with example			
2) What is dictionary? Explain with example.			
3) Explain the different tuple operations with		ŧ	
4) Write the difference between list and tuple.			
5) What is String? Explain with example.			
6) Write a program of String which join 2 or 1	more Strings into a single one.		
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Q.4) Attempt any three of the following		(15 M)	
1) Write a program to check whether the given number is even or not.			
2) Write a program to find the area of a triang		ŧ	
3) Write a program to find average of three nu			
4) Explain any 5 pre-defined math functions.			
5) Write a program to print greatest number a	mong 3 given numbers.		
6) Write short note on String methods.			