B.Sc. RNLKWC-/GE4T/22

Total Pages - 3

2022

DATA STRUCTURE USING PYTHON B.Sc. Fourth Semester End Examination - 2022 PAPER - GE4T

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

I.	Answer any five questions:	3×2=10
a)	What is data structure? Give an example.	2
b)	What is Exception handling.	2
c)	What do you mean by global variable?	2
d)	What are the operations performed on the queue	? 2
		(Turn Over)

e)	What do you mean by negative Index?	
f)	What is string? Give an example.	
g)	What do you mean by overflow and underflow in stack?	
h)	How to create an array in python? Give an example.	
2.	Answer any four questions. 4×5=20	
a)	What is row-major and column major form o 2-dimensional matrix? Give example of each.	
b)	Write a short note on priority queue.	
c)	What is dynamic array? Write a python code to creat dynamic array.	
d)	Write down the procedure of Binary Searching technique.	
e)	How to sort, set of element in array using bubble sortechnique? Write down the procedure of that.	
f)	What is Linked list? What are the advantages and disadvantages of linked list.	

3. Answer any one question. 1×10=10
 a) Write a python program to insect into an empty binary search tree, entries with keys 30, 40, 24, 58, 48, 26, 11,

13.

b) What is function? How to define function in python? Give an example. 2+3

What do you mean by asymptotic notations? Explain in details. 5