

DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institute Affiliated to VTU, Belagavi)

UG Makeup Examination, June/July 2018

Course: Python Scripting

Code: **TE663**

Maximum marks: 100

CARRED PARRES

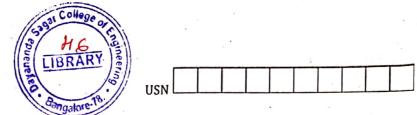
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Duration: 3 hours

Answer five full Questions. All questions carry equal marks Marks 1 Compare machine language, assembly language and high-level language. 10 What are the differences between C and Python? 05 Briefly discuss about the types of decision making statement. 05 (OR) 2 What are mutable and immutable objects? 05 Define operator. Discuss arithmetic, assignment, comparison and bitwise 10 operators with examples. Discuss the importance of indentation in python? 05 3 Discuss the Qualities of a good algorithm. 05 Discuss Random Access and Contiguous Memory. 05 Write an algorithm to sort a list of numbers in ascending order. 10 (OR) 4 Discuss Traversal, Searching and Replacement operations on Singly Linked 10 Structures. b 05 What are two-dimensional arrays or grids? Discuss Noncontiguous Memory and Nodes. 05 10 5 Discuss applications of queues. With the help of neat diagram explain architecture of a run-time environment. 10 (OR) Discuss Index-Based Operations, Content-Based Operations, Position-Based 10 6 Operations with reference to python list. Define stack class in python to operate on stack of numbers. 05 Discuss any 2 Common Applications of Binary Trees. 05 C Discuss Classes and Objects with suitable examples? 10 7 a Give three reasons why interfaces are separated from implementations. 05 b Write a Python program to overload '+' operator. 05 (OR) Define abstraction and encapsulation with suitable example. 05 What is Polymorphism? Discuss with an example. 10 05 List few application areas of OOP technology.

9	2	What are Access Specifiers? Discuss the different access specifies with	10
,	a	reference to object oriented programming.	10
	b	reference to object oriented programming. Write a Python program to implement the concept of multi-level inheritance. (OR)	
10		Poulster de Constant Charles and	05
10	a b	Explain the feature of Inheritance. What are the differences between Abstract Base Class and Interface? What are the differences between Abstract Base Class and Interface?	05
	С	Explain the following concepts of object oriented programming in detail with an example.	10
		i) Data abstraction	
		ii) Inheritance	
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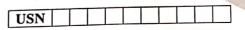
UG Semester End Examination, May 2018

Course: Python Scripting Code: TE663 Maximum marks: 100 Duration: 3 hours Answer five full Questions. All questions carry equal marks Marks 1 10 Compare machine language, assembly language and high-level language. 05 b Illustrate the flow chart of if-elif- else statements. 05 c What are mutable and immutable objects? (OR) 2 05 What are the different Loops available in python? 10 b Define operator. Discuss arithmetic, assignment, comparison and bitwise operators with examples. 05 Give the differences between recursion and iteration with suitable examples. a Write a python program to search a specific value from a given list of values 10 3 using binary search method. 05 b Discuss the Qualities of a good algorithm. Discuss Static Memory and Dynamic Memory with appropriate examples. 05 (OR) 10 a Discuss Singly Linked Structures and Doubly Linked Structures. 4 05 b Write a program for decreasing the size of an Array. c Explain why insertion sort works well on partially sorted lists. 05 10 Discuss any 4 stack operations. 5 b Discuss Index-Based Operations, Content-Based Operations, Position-Based 10 Operations with reference to python list. What is the difference between a perfectly balanced binary tree and a 05 6 complete binary tree? b Define stack class in python to operate on stack of numbers. 05 With the help of neat diagram explain architecture of a run-time environment. 10 a Discuss Classes and Objects with suitable examples? 10 7 b Highlight the importance of using _init_ special method. 05 List few application areas of OOP technology. 05 (OR) 05 a Define abstraction and encapsulation with suitable example. List out the difference between object oriented programming and procedure 05 8

oriented programming.

Page 1 of 2

	С	What is Polymorphism? Discuss with an example.	10
9	a	That are Access Specifiers? Discuss the unferent access of	10
	b	reference to object oriented programming. Explain the following concepts of object oriented programming in detail with an example. i) Data abstraction ii) Inheritance	10
		(OR)	
10	a b c	Explain the feature of Inheritance. What are the differences between Abstract Base Class and Interface? Discuss different types of inheritance with example.	05 05 10



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(An Autonomous Institute Affiliated to VTU, Belagavi)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078

UG Makeup Examination, July 2019



Course:

Python Scripting

Maximum marks: 100

Course Code:

TE663

Duration: 03 hours

Semester:

i)

j)

k)

Define stack.

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	Note:	i). Question ONE (a to t) has to be answered from pages 5 to 7 only. ii). Question 1 to 4 is compulsory. iii). Any missing data should be suitably assumed.	
1	a)	Mention type conversion with example.	
	b)	Define indentation.	
	c)	What do you mean by greater.isupper() ?	
	d)	Define Dictionaries.	
	e)	Represent three external links to singly linked structures.	
	f)	Define probe.	
	g)	Where does probe will be pointing after termination?	
	h)	Where does head will be pointing after termination?	

Mention the state of queue when front pointer and rear pointer is pointing.

In infix to postfix conversion algorithm, the operators are associated from.

s) Define Bag interface.t) Define Abstract collection.

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Define operator. Discuss arithmetic, assignment, comparison and bitwise operators	s 08
with examples b) Compare machine language, assembly language and high-level language.	08
 a) Discuss Singly Linked Structures and Doubly Linked Structures. b) Write a python program is a single form. 	08
b) Write a python program to search a specific value from a given list of values using binary search method.	08
4 a) Discuss Index Page 1 a	
 a) Discuss Index-Based Operations, Content-Based Operations, Position-Based b) Discuss any 4 stack operations. 	08
	80
5 a) Highlight the importance of using _init_ special method. b) Discuss Classes and Oking.	
b) Discuss Classes and Objects with suitable examples.	80
	80
OR a) List out the difference between object oriented programming and procedure oriented programming. b) What is Polymorphism? Discuss with an example.	06
7 a) Explain the following concepts of object oriented programming in detail with an b) What are Access Superior ii) Inheritance	10
i) Data abstraction ii) Inheritance b) What are Access Specifiers? Discuss the different access specifies with reference to 8 a) Explain the fact. OR	08
8 a) Explain the features of OR	80
a) Explain the features of Inheritance. b) Discuss different types of inheritance with example.	
with example.	80
	80