Total Pages: 3

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December 2022 BCA (DS) III SEMESTER Python Programming (BCA-DS-201)

Time: 3 Hours] [Max. Marks: 75

Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

1.	(a)	Write the syntax of list in Python havin	g five fruit
		names.	(1,5)
	(b)	What is Numpy used for?	(1,5)
	(c)	Explain' docstring in a class.	(1,5)
	(d)	Name any three build in functions.	(1,5)
	(e)	What does the following code do?	(1,5)
		fo = open("C:/Program Files/Python/	xyz.bmp",
		"ab+")	

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N		ges a	Ä	Write	rea.	embe	gram aving		x, vai	n Tu		eau a	E CS	nec .	PART-B	What is image processing?		eek()		ngth	What are global variables?
۵		Explain the advantages and disadvantages of lambda		What is recursion? Write a recursive function to find		and breadth and one member function cal_area.	Define class. Write a program using constructor to create a class called "room" having two data members length	9	Explain, using syntax, various data types supported in	Differentiate between Tuples & List.		write a program to read a 5 digit number and print the	3 1 7	Discuss various features of Python	₩	35		What is the need of seek() function in Files in Python?		What are variable length arguments?	*3
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6.
(a)
What
ÇO.
20
a module?
How
do
We
create
and
use
it?

(b) Explain various operators in Python.

(10)

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.7 (a) What is a file? Write a program to read the contents of a binary file.
(b) What is OpenCV? Explain (10)

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b: 2