

Code: 20CS6521

III B.Tech - I Semester – Regular Examinations - DECEMBER 2022**ADVANCED PYTHON PROGRAMMING
(HONORS in COMPUTER SCIENCE & ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	Develop a Python Program to convert the following decimals into fractions: i) 0.1 ii) 0.5 iii) 1.5	L3	CO2	7 M
	b)	Develop a Python Program to impose Positive and Negative signs of a number.	L3	CO2	7 M
OR					
2	a)	Demonstrate the function of Saving State using random module.	L2	CO1	7 M
	b)	Illustrate how the exponentiation operator helps in solving the problems.	L2	CO1	7 M
UNIT-II					
3	a)	Develop a Python Program to remove the existing Indentation using one of text wrap functionality.	L3	CO2	7 M

	b)	Compare 2 different bodies of text using difflib module.	L2	CO2	7 M
OR					
4	a)	Illustrate with an example, how to modify Strings with some specific patterns.	L3	CO2	7 M
	b)	Discover the importance of Templates in Strings for interpolation.	L3	CO2	7 M
UNIT-III					
5	a)	Interpret the function groupby() of itertools module.	L2	CO3	7 M
	b)	Explain the process of using a decorator which convert a generator function into a context manager.	L2	CO3	7 M
OR					
6	a)	Demonstrate the Producer Consumer Problem by Synchronizing the threads.	L2	CO3	7 M
	b)	List the different exit codes and illustrate its usage in Process Exit status.	L3	CO3	7 M
UNIT-IV					
7	a)	Interpret the functionality of namedtuple from Collections module.	L3	CO4	7 M
	b)	Develop a Python Program to show how to handle the duplicates by using insert function.	L3	CO4	7 M
OR					

8	a)	Illustrate how the contents of an array can be written to and read from files using built-in methods.	L3	CO4	7 M
	b)	Discuss the three forms of initialization by counter container from Collections package.	L3	CO4	7 M
UNIT-V					
9	a)	Analyze the differences between basic FIFO Queue and LIFO Queue.	L4	CO5	7 M
	b)	Identify the importance of Reference Callbacks in weakref module.	L2	CO5	7 M
OR					
10		Compare Shallow copy & Deep copy and develop a Python Program to show the significant comparison between shallow and Deep Copies.	L4	CO5	14 M