UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, Dec 2020

Course: Programming with Python   **Semester: V**
Program: B.Tech CSE-CSF   **Time 03 hrs.**
Course Code: CSAI 1001   **Max. Marks: 100**

SECTION A

1. Each Question will carry 5 Marks.
2. Instruction: Complete the Statement / Select the correct answer(s)

S. No.		CO
Q 1	_____ converts first character of a string to uppercase letter and all other characters lowercased.	CO1
Q 2	Select the special characters that matches a pattern only at the end of the string 1. \B 2. \X 3. \T 4. \A	CO2
Q 3	The methods to remove elements from a set are _____, _____ and _____.	CO1
Q 4	_____ module is used for serializing and de-serializing python object structures	CO3
Q 5	_____ is used to check data dimensionality using pandas library.	CO4
Q6	The system function call _____ creates a copy of the process, which has called it.	CO4

SECTION B

1. Each Question will carry 10 Marks.
2. Write short / brief notes. Make diagrams wherever needed.

Q 7	Write a Python program to count the number of occurrences of a word in a text file.	CO3
Q 8	Discuss various types of arguments used in Functions. Write an example for function calls with an arbitrary number of arguments.	CO1
Q 9	Discuss the concept of Inheritance in Python and write a program to show the use of super( ) function.	CO2
Q 10	Demonstrate the use of exception handling in Python and discuss any 3 common exception types.	CO3
Q11	Write the python code for the following	CO4

	1. Convert the numbers=[3,5,6,1] to numpy array.
	2. Convert all elements to string type..
	3. Print 10 random numbers between 1 to 100 using Numpy.
	4. Create an array of complex numbers using Numpy.

SECTION-C

1. Each Question carries 20 Marks.
2. Instruction: Write long Answers.

Q 12	Write a program to accept following details from a student using GUI 1. Name of the student (using Textbox) 2. Gender (Using radio button) 3. Qualification (Using List) 4. Marks of three subjects (using Textbox) Compute the percentage of the student and display it in a textbox. Or	**CO4**
	Discuss the usefulness of pandas library and write a program to create a dataframe to store the following data to a .csv file Country Matches Won A 10 B 20 C 16 D 8 E 14 Then read the data from a file and generate a graph of the data.	**CO4**