Name:	
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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2022

Course: Programming for analytics Semester: IV

Program: MBA BA

Course Code: DSBA 8004

Time : 03 hrs.

Max. Marks: 100

Instructions:

SECTION A OOx2M=20Marks

10Qx2M=20Marks			
S. No.		Marks	CO
S. No. Q1.	1. What happens when '2' == 2 is executed? a. False b. Ture c. ValueError occurs d. TypeError occurs 2. Which of the following data types is shown below? 1. L = [2, 54, 'javatpoint', 5] What will be the output of this statement? a. Dictionary b. Tuple c. List d. Stack 3. Which of the following option is not a core data type in the python language? a. Dictionary b. Lists c. Class d. All of the above 4. Study the following program: 1. d = {0, 1, 2} 2. for x in d: 3. print(x) What will be the output of this statement?	Marks 10QX2=20	CO
	3. print(x)		

5.	Study the following program:	
	1. $x = 'pqrs'$	
	2. for i in range(len(x)):	
	3. $x[i].upper()$	
	4. print (x)	
W	Thich of the following is the correct output of this program?	
**		
	a. PQRS	
	b. pqrs	
	c. qrs	
	d. None of these	
6.	Study the following program:	
	1. $i = 0$	
	2. while i < 3:	
	3. print(i)	
	4. $i += 1$	
	5. else:	
	6. print(0)	
W	That will be the output of this statement?	
''	a. 01	
	b. 012	
	c. 0120	
	d. 0123	
7	Study the following function:	
/.	Study the following function:	
	1. import math	
	2. abs(math.sqrt(36))	
W	hat will be the output of this code?	
	a. Error	
	b6	
	c. 6	
	d. 6.0	
8.	Which one of the following has the highest precedence in the	
ex	xpression?	
	a. Division	
	b. Subtraction	
	c. Power	
	d. Parentheses	
	d. 1 di Olidiosos	
9.	Which of the following operators is the correct option for power(ab)?	
	a. a ^ b	
	b. a**b	
	c. a ^ ^ b	
	d. a ^ * b	
	u. u U	

	10. What do we use to define a block of code in Python language?	
	a. Key b. Brackets	
	b. Brackets c. Indentation	
	d. None of these	
	SECTION B	
	4Qx5M= 20 Marks	
Q2.	Discuss the int(), float(), str(), and chr() type conversion functions with	CO2
	examples.	002
Q3.	Illustrate the different types of conditional statements available in Python with syntax.	CO2
Q4.	Describe different relational operators of python with the help of examples.	CO2
Q5.	Differentiate between the inbuilt and user defined functions.	CO2
	SECTION-C 3Qx10M=30 Marks	
Q6.	Define a function in python to calculate the area and circumference of the	
	circle.	CO2
Q7.	Describe the different types of data structure used in python with the help	
	of suitable program.	CO2
Q8.	Write output of following codes:	
	a)	
	for i in range(8):	
	print("Amit")	
	print(i) b)	
	for i in range(10,31):	
	print(i)	602
	(c)	CO2
	for i in range(2,21,3):	
	print(i)	
	d) i = 3	
	while i < 10:	
	print(i)	
	i=i+1	
	SECTION-D 2Qx15M= 30 Marks	
Q9.	Write the following programs in python:	CO3
	A) To find number is even or odd.	
	B) To find sum first 50 natural numbers.	

	C) To convert temperature Celsius to Fahrenheit	
Q10.	Write the explanation of the below program line by line:	
Q10.	Write the explanation of the below program line by line: import numpy as np import pandas as pd df=pd.read_excel("f:/bigmart_data.xls") df.info() df.head() df.describe() df.shape df.tail(10) df['Ship Mode', 'Category'] df[' Category].unique() df.iloc[4] df.iloc[2:4] df.iloc[:;:4] df.iloc[1:4,2:5]	CO3