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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, June 2021

Programme Name: B.Tech (SoE)

Course Name : Computing with Python (Minor Specialization)

Course Code : MRDA0202

Semester : IV

Time : 3 Hr

Max. Marks : 100

Instructions:

1. Attempt all the questions[MCQ and other]

2. Attempt all questions serially as per Question paper and Upload all Answers in Section C.

3. Answer should be neat and clean. Draw a free hand sketch for circuits/tables/schematics wherever required.

4. You are expected to be honest about each attempt which you make to progress in life

S. No.		Marks	
Q1	What happens when $'2' = 2$ is executed?		
	a. False		
	b. True	2	
	c. ValueError occurs	_	
	d. TypeError occurs		
Q2	Study the following program:		
	def example(a):		
	aa = a + '1'		
	aa = a*1	2	
	return a		
	>>>example("Python_point")		

	What will be the output of this statement?		
	what will be the output of this statement:		
	a. hello2hello2		
	b. hello2		
	c. Cannot perform mathematical operation on strings		
1	d. Indentation Error		
Q3	Which of the following option is not a core data type in the python language?		
	a. Dictionary		
	b. Lists	2	
	c. Class	2	
1	d. All of the above		
ı			
Q4	x = 'pqrs'		
i	for i in range(len(x)):		
	F*1		
	x[i].upper()		
1	print (x)		
1		2	
	Which of the following is the correct output of this code?	4	
	a. PQRS		
1	b. pqrs		
1	c. qrs		
	d. None of these		
i			
Q5	r = lambda q: q * 2		
	s – lambda se s * 3		
	s = lambda q: q * 3		
	x = 2		
	$\mathbf{r} = \mathbf{r}(\mathbf{r})$		
	$\mathbf{x} = \mathbf{r}(\mathbf{x})$		
	$\mathbf{x} = \mathbf{s}(\mathbf{x})$	2	
	$\mathbf{x} = \mathbf{r}(\mathbf{x})$		
	print (x)		
	Deadist and write the output of the eforementioned and		
	Predict and write the output of the aforementioned code.		

Q6	<pre>nameList = ['Harsh', 'Pratik', 'Bob', 'Dhruv']</pre>		
	<pre>print nameList[1][-1]</pre>	2	
		_	
Q7	Suggest the output of the code in Python. 1. x = ['xy', 'yz']		
	2. for i in a: 3. i.upper()		
	4. print(a)		
	Which of the following is correct output of this program?		
	a. ['xy', 'yz']	2	
	b. ['XY', 'YZ']		
	c. [None, None] d. None of these		
Q8	import sys		
	L1 = tuple()		
	print(sys.getsizeof(L1))		
	L1 = (1, 2)		
	print(sys.getsizeof(L1))		
	L1 = (1, 3, (4, 5))		
	print(sys.getsizeof(L1))		
	L1 = (1, 2, 3, 4, 5, [3, 4], 'p', '8', 9.777, (1, 3))		
	print(sys.getsizeof(L1))	2	
	Expect the approximate output of the following code in PYTHON language:		
	a) 0 2 3 10		
	b) 32 34 35 42		
	c) 48 64 72 128		
	d) 48 144 192 480		
	e) 56 72 80 136		

Q9	What is the method inside the class in python language?		
	 a. Object b. Function c. Attribute d. Argument 	2	
Q10			
	Which of the following statements is correct regarding the object-oriented programming concept in Python?		
	 a. Classes are real-world entities while objects are not real b. Objects are real-world entities while classes are not real c. Both objects and classes are real-world entities d. All of the above 	2	
Q11	Read through the following and develop a code as stated:		
	To access values in lists, we use the square brackets for slicing along with the index or indices to obtain required value available at that index. For N items in a List MAX value of index will be N-1.		
	Write a code in Python to execute all the understated statements:		
	Statement 1: This will print item located at index 0 in Output.	8	
	Statement 2: This will print item located at index -2 i.e. second last element in Output.		
	Statement 3: This will print items located from index 1 to end of the list.		
	Statement 4: This will print items located from index 1 to 4 of the list		
Q 12	import threading		
	class thread(threading.Thread):		
	definit(self, thread_ID, thread_name):	2	
	threading.Threadinit(self)		
	self.thread_ID = thread_ID		

	self.thread_name = thread_name		
	sen.uneau_name = uneau_name		
	def run(self):		
	print(self.thread_name)		
	print(sen.tinead_name)		
	thread1 = thread(100, "GFG")		
	thread2 = thread(101, "Geeks ")		
	thread3 = thread(102, "GeeksforGeeks ")		
	thread = []		
	thread.append(thread1)		
	thread.append(thread2)		
	thread.append(thread3)		
	thread1.start()		
	thread2.start()		
	for thread in thread:		
	thread.join()		
	thread3.start()		
	print("Exit")		
	Predict the output:		
	a) GFG Geeks GeeksforGeeks Exit		
	b) Compilation error		
	c) Program will halt in between due to Runtime error		
	d) None of these		
Q13	Which of the statements about dictionary values if false?	2	

	a) More than one key can have the same value		
	b) The values of the dictionary can be accessed as 'dict'[key]		
	c) Values of a dictionary must be unique		
	d) Values of a dictionary can be a mixture of letters and numbers		
	a) Values of a dictionary can be a mixture of letters and numbers		
Q14	What will be the output of the following Python code snippet?		
	<pre>total={} def insert(items):</pre>		
	<pre>if items in total:</pre>		
	<pre>total[items] += 1 else:</pre>		
	<pre>total[items] = 1 insert('Apple')</pre>		
	<pre>insert('Ball')</pre>	2	
	<pre>insert('Apple') print (len(total))</pre>		
	a) 3 b)1		
	c)2		
	d) 0		
Q15	The value of the expressions $4/(3*(2-1))$ and $4/3*(2-1)$ is the same.		
	a) True	_	
		2	
	b) False		
Q16	Write a code in PYTHON to implement a QUEUE and enlist its run-time cases.		
Q10	write a code in 1 1 11101v to implement a QOLOL and emist its fun-time cases.	10	
Q17	Which one of the following is the correct extension of the Python file?		
	a) .py	2	
	b) .python c) .p	2	
	d) None of these		
Q18	What is the maximum possible length of an identifier?		
	a. 16 b. 32		
	c. 64	2	
	d. None of these above		
Q19	What error will occur when you execute the following code?		
Q19	what error will occur when you execute the following code:		
	MANGO = APPLE	2	
	a. NameError		
	a. NameError b. SyntaxError		

	c. TypeError		
	c. TypeError d. ValueError		
	G. VALUELITOI		
020	How many control statements with an aumouts?		
Q20	How many control statements python supports?		
	a. Four		
	b. Five	2	
	c. Three		
	d. None of the these		
Q21	Which of the following arithmetic operators cannot be used with strings in		
	python?		
	a. +		
	b. *	2	
	c		
	d. All of the mentioned		
022	PVM is often called		
Q22			
	a. Python interpreter		
	b. Python compiler	2	
	c. Python volatile machine	_	
	d. Portable virtual machine		
Q23	Which of the following objects are present in the function header in python?		
L	a. Function name and Parameters		
	b. Only function name		
	c. Only parameters	2	
	d. None of the these		
	d. None of the these		
Q24	from random import randrange		
	<pre>L = list() for x in range(5):</pre>		
	L.append(randrange(0, 100, 2)-10)		
	1.appena (lanalange (o, 100, 2, 10)		
	# Choose which of outputs below are valid for this code.		
	print(L)	_	
		2	
	a) [-8, 88, 8, 58, 0]		
	b) [-8, 81, 18, 46, 0]		
	c) [-7, 88, 8, 58, 0]		
	d) [-8, 88, 94, 58, 0]		
	a) [0, 00, 34, 00, 0]		
Q25	numberGames = {}		
	numberGames[(1,2,4)] = 8		
	numberGames $[(4,2,1)] = 10$		
	numberGames $[(1,2)] = 12$		
	sum = 0	2	
	for k in numberGames:		
	sum += numberGames[k]		
	Sum 1 — number Sames[K]		
	print len(numberGames) + sum		
I	1 * '	1	

	Write the expected output for the above code in PYTHON.		
Q26	Write a Python program to Sort a List of Tuples in Increasing Order by the Last Element in Each Tuple.	8	
Q27	Code a Python Program to remove all tuples in a list of tuples with the USN outside the given range	8	
Q28	Suggest a code in PYTHON to count the frequency of words appearing in a string using a dictionary	4	
Q29	Which of the following statements is not valid regarding the variable in python?		
	a. The variable_name can begin with alphabets		
	b. The variable_name can begin with an underscorec. The variable_name can begin with a number	2	
	d. None of the these		
Q30	arr = [3, 2, 5, 6, 0, 7, 9]		
	add1 = 0		
	add2 = 0		
	for elem in arr:		
	if (elem % 1 == 0):		
	add1 = add1 + elem		
	continue		
	if (elem % 3 == 0):	2	
	add2 = add2 + elem		
	print(add1, end=" ")		
	print(add2)		
	What will be the output of this program?		
	a. 32 0		
	b. 032		
	c. 18 0 d. 0 18		
Q31	1. class Teacher:		
	2. definit(name, id_no, age):	2	
	3. name.id_no = id_no 4. name.age = age		
	4. name.age = age		

	5. teac = Teacher(5, 25)		
	Which of the following statements is incorrect regarding this program?		
	 a. A constructor has been given in this program b. id_no and age are called the parameters c. The "teac" is the reference variable for the object Teacher(5, 25) d. None of the these 		
Q32	Which of the following statements would create a tuple in python?		
	 a. mytuple = ("apple", "banana", "cherry") b. mytuple[123] = ("apple", "banana", "cherry") c. mytuple = ("2" * ("apple", "banana", "cherry")) d. None of the these 	2	
	In the Python Programming Language, syntax error is detected by at		
Q33	·		
	 a. Interpreter / Compile time b. Run time / Interpreter c. Interpreter / Run time d. Compile time / Run time 	2	
Q 34	Which of the following blocks allows you to handle the errors?		
	 a. except block b. try block c. finally block d. None of the these 	2	
Q 35	Explain the following Built-in functions w.r.t. PYTHON:		
	1. abs() 2. all() 3. any() 4. format()	4	