

L.J Institute of Engineering and Technology, Ahmedabad.
FCSP-1 Question Bank (SEM-III)

Note : This question bank is only for reference purpose. LJU Test question paper may not be completely set from this question bank.

Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
1	1	Which character is used in Python to make a single line comment?	D	1	/	//	!	#
2	1	What will be the output of print(type(2**5)) in python?	A	1	int	float	double	integer
3	1	What will be the output of print(type("LJU")) in python?	C	1	int	float	str	char
4	1	What will be the output of print(type(3*5/5)) in python?	B	1	int	float	double	integer
5	1	Which of the following is not a boolean expression?	C	1	True	3==4	3+4	3+4==7
6	1	If x=3.123, then int(x) will give ?	B	1	1	3	4	3.12
7	1	Which one of the following is correct way of declaring and initialising a variable, x with value 5?	C	1	int x x=5	int x=5	x=5	declare x=5
8	1	Which of the following is an invalid statement?	B	1	abc = 1,000,000	a b c = 1000 2000 3000	a,b,c = 1000, 2000, 3000	a_b_c = 1,000,000
9	1	What is the maximum possible length of an identifier?	D	1	31 characters	63 characters	79 characters	None of the mentioned
10	1	Which of the following is invalid?	D	1	_x = 1	__x = 1	__x__ = 1	None of the mentioned
11	1	Which of the following cannot be a variable?	B	1	__in__	in	it	__it__
12	1	Which of the following is an invalid variable?	B	1	char_1	1st_char	oopec	_
13	1	What happens when '2' == 2 is executed?	B	1	True	False	ValueError	TypeError
14	1	What will be the output of this program? _ = '1 2 3 4 5 6' print(_)	D	1	SyntaxError: EOL while scanning string literal	SyntaxError: invalid syntax	NameError: name '_' is not defined	1 2 3 4 5 6
15	1	The following is displayed by a print function call. Select all of the function calls that result in this output. tom sam harry	C	1	print("""tom \nsam \nharry""")	print("""tomsamharry""")	print('tom\nsam\nharry')	print('tom sam harry')
16	1	What will be the output of the following program on execution? print(print(print("python")))	B	1	None None python	python None None	python	Error
17	1	What will be the output of this program? word = "python" print(*word)	B	1	python	p y t h o n	*python	error
18	1	Which is the correct operator for power(Xy)?	B	1	X^y	X**y	X^^y	None of the mentioned
19	1	What is the answer to this expression, 34 % 3 is?	B	1	7	1	0	5
20	1	What will be the output of the following program on execution? a=0 b=6 x=(a or b) or ((a and a) or (a and b)) print(x)	B	1	0	6	True	False
21	1	What will be the output of the following program on execution? a=0 b=6 x=(a or b) or ((a and a) or (a and b)) y=not(x) print(y)	D	1	0	6	True	False

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22	1	What will be the output of this program? print(True ** False / True)	B	1	True ** False / True	1.0	0	Error
23	1	What is the average value of the following Python code snippet? 1. >>>grade1 = 80 2. >>>grade2 = 90 3. >>>average = (grade1 + grade2) / 2	D	1	84.5	86	84.0	85.0
24	1	What error occurs when you execute the following Python code snippet? apple = mango	C	1	Type Error	Value Error	Name Error	Syntax Error
25	1	What is the output of this expression, 3*1**3?	B	1	1	3	9	27
26	1	Select option that will print: hello-how-are-you	A	1	print('hello-' + 'how-are-you')	print('hello', 'how', 'are', 'you')	print('hello', 'how', 'are', 'you' + '-' * 4)	print('hello' + '-' + 'how' + '-' + 'are' + 'you')
27	1	In python we do not specify types, it is directly interpreted by the compiler, so consider the following operation to be performed. >>>A = 27 ? 5 objective is to make sure A has an integer value.	D	1	A = 27 // 5	A = int(27 / 5)	A = 27 % 5	All of the mentioned
28	1	Which of the following is not a comparison operator in Python?	C	1	>=	<=	=	!=
29	1	What is the value of the following expression? 2+4.00, 2**4.0	A	1	(6.0, 16.0)	(6.00, 16.00)	(6, 16)	(6.00, 16.0)
30	1	What will be the output of the following program on execution? a=4 b=6 c=3 print(a+b*c/a-b)	C	1	1.5	2	2.5	3
31	1	What is the value of the following expression? 8/4/2, 8/(4/2)	A	1	(1.0, 4.0)	(1.0, 1.0)	(4.0, 1.0)	(4.0, 4.0)
32	1	What will be the value of the following Python expression? 8 + 2 % 3	A	1	10	8	9	7
33	1	What will be the value of x in the following Python expression? x = int(63.55+8/3)	B	1	65	66	23	24
34	1	What are the values of the following Python expressions? 2**(3**2) (2**3)**2 2**3**2	D	1	64, 512, 64	64, 64, 64	512, 512, 512	512, 64, 512
35	1	What will be the output of this program? print(6 + 5 - 4 * 3 / 2 % 1)	C	1	15.0	7.0	11.0	10.0
36	1	What will be the output of this program? print(int(6 == 6.0) * 3 + 4 % 5)	C	1	Error	22	7	18
37	1	Write a Python program to add 2 Numbers with user input.		4				
38	1	Write a Python program to find the area of Circle.		4				
39	1	Write a Python program to find the area of Triangle.		4				

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40	1	Write a Python program to calculate the area of a trapezoid.		4				
41	1	Write a Python program to calculate surface volume and area of a cylinder.		4				
42	1	Write a Python program to convert Fahrenheit to Celsius and vice versa.		7				
43	1	Write a Python program to calculate the square root of a positive number.		7				
44	1	Write a Python program to convert degree to radian and vice versa.		7				
45	1	Write a python code to demonstrate calculator functionality.		7				
46	1	Write a python program to convert Days into Years, Months and Days. (Ex: if input of Days = 370 then output will be, years=1, months=0 and days = 5).		7				
47	1	Write a Python program to convert hours into minutes and seconds (Ex : input of hours = 6 then output will be, minutes = 360 and seconds = 21600).		7				
48	2	In a Python program, a control structure:	A	1	Directs the order of execution of the statements in the program	Dictates what happens before the program starts and after it terminates	Defines program-specific data structures	Manages the input and output of control characters
49	2	Which one of the following if statements will not execute successfully:	D	1	if (1, 2): print('foo')	if (1, 2): print('foo')	if (1, 2): print('foo')	if (1, 2): print('foo')
50	2	Which of the following are valid if/else statements in Python, assuming x and y are defined appropriately:	A	1	if x < y: print('foo') elif y < x: print('bar') else: print('baz')	if x < y: if x > 10: print('foo')	if x < y: print('foo') else: print('bar')	None of mentioned
51	2	What does the following code print? if 4 + 5 == 10: print("TRUE") else: print("FALSE") print("TRUE")	C	1	TRUE	TRUE FALSE	FALSE TRUE	TRUE FALSE TRUE
52	2	What does the following code print? x = -10 if x < 0: print("The negative number ", x, " is not valid here.") print("This is always printed")	B	1	This is always printed	The negative number -10 is not valid here This is always printed	The negative number -10 is not valid here	It will cause an error because every if statement must have an else statement.
53	2	Which of the following is true about the code below? x = 3 if (x > 2): x = x * 2; if (x > 4): x = 0; print(x)	C	1	x will always equal 0 after this code executes for any value of x	if x is greater than 2, the value in x will be doubled after this code executes	if x is greater than 2, x will equal 0 after this code executes	None of mentioned
54	2	Which one of the following is a valid Python if statement?	A	1	if a>=2 :	if (a >= 2)	if (a => 22)	if a >= 22
55	2	What keyword would you use to add an alternative condition to an if statement?	C	1	else if	elseif	elif	None of the above

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56	2	Which of the following will evaluate to true? I. True and False II. False or True III. False and (True or False)	B	1	I	II	I and II	II and III
57	2	Given two variables, num1 and num2, which of the following would mean that both num1 and num2 are positive integers?	D	1	(num1 == num2)	(num1 == num2) or (num1 > 0)	(num1 == num2) and (num1 < 0)	(num1 == num2) and (num1 > 0)
58	2	What is the output from the following code? a = 3 b = (a != 3) print(b)	B	1	TRUE	FALSE	0	3
59	2	Which of the following evaluates to True when a is equal to b or when a is equal to 5?	C	1	a == b == 5	a = b or a = 5	a == b or a == 5	a = b and a = 5
60	2	Which statement will check if a is equal to b?	B	1	if a = b:	if a == b:	if a === c:	if a == b
61	2	Given the nested if-else structure below, what will be the value of x after code execution completes x = 0 a = 0 b = -5 if a > 0: if b < 0: x = x + 5 elif a > 5: x = x + 4 else: x = x + 3 else: x = x + 4 print(x)	D	1	2	0	3	4
62	2	Given the nested if-else below, what will be the value x when the code executed successfully x = 2 a = 5 b = 5 if a > 0: if b < 0: x = x + 5 elif a > 5: x = x + 4 else: x = x + 3 else: x = x + 2 print(x)	B	1	0	5	2	3

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
63	2	What is the output of the following if statement a, b = 12, 5 if a + b: print('True') else: print('False')	B	1	False	True	Can't predict	None of these
64	2	Which of the following is not used as loop in Python?	C	1	for loop	while loop	do-while loop	None of the above
65	2	A loop becomes infinite loop if a condition never becomes _____.	B	1	TRUE	FALSE	Null	Both A and C
66	2	If the else statement is used with a while loop, the else statement is executed when the condition becomes _____.	B	1	TRUE	FALSE	Infinite	Null
67	2	Python programming language allows to use one loop inside another loop known as?	C	1	switch	foreach	nested	forall
68	2	What will be the output of given Python code? n=7 c=0 while(n): if(n>5): c=c+n-1 n=n-1 else: break print(n) print(c)	B	1	4 16	5 11	6 7	5 10
69	2	What will be the output of given Python code? str1="hello" c=0 for x in str1: if(x!="l"): c=c+1 else: pass print(c)	D	1	2	0	4	3
70	2	What is the output of the following loop for l in 'RAJU': if l == 'o': pass print(l, end=", ")	B	1	R, A, J	R, A, J, U,	R, A	R, A, J, U
71	2	How many times will the loop run? i=2 while(i>0): i=i-1	A	1	2	3	1	0

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72	2	How many times will the condition will be checked? i=2 while(i>0): i=i-1	B	1	2	3	1	0
73	2	What will be the output of the following Python code? i = 1 while True: if i%3 == 0: break print(i) i += 1	C	1	1 2	1 2 3	Error	None of these
74	2	What is the value of the var after the for loop completes its execution var = 10 for i in range(10): for j in range(2, 10, 1): if var % 2 == 0: continue var += 1 var+=1 else: var+=1 print(var)	B	1	20	21	10	30
75	2	What will be the output of the following Python code? for i in range(0,2,-1): print("Hello")	C	1	Hello	Hello Hello	No Output	Error
76	2	Which of the following is a valid for loop in Python?	B	1	for(i=0; i < n; i++)	for i in range(0,5):	for i in range(0,5)	for i in range(5)
77	2	Which of the following sequences would be generated by the given line of code? range (5, 0, -2)	C	1	5 4 3 2 1 0 -1	5 4 3 2 1 0	5 3 1	None of the above
78	2	A while loop in Python is used for what type of iteration?	A	1	indefinite	discriminant	definite	indeterminate
79	2	When does the else statement written after loop executes?	B	1	When break statement is executed in the loop	When loop condition becomes false	Else statement is always executed	None of the above
80	2	What is the output of the following for loop and range() function for num in range(-2,-5,-1): print(num, end=" ")	D	1	-2, -1, -3, -4	-2, -1, 0, 1, 2, 3,	-2, -1, 0	-2, -3, -4,
81	2	What will be the output of the following code? x = 12 for i in x: print(i)	C	1	12	1 2	Error	None of the above

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82	2	What is the value of x after the following nested for loop completes its execution x = 0 for i in range(10): for j in range(-1, -10, -1): x += 1 print(x)	B	1	99	90	100	101
83	2	What is the output of the following range() function for num in range(2,-5,-1): print(num, end=" ")	C	1	2, 1, 0	2, 1, 0, -1, -2, -3, -4, -5	2, 1, 0, -1, -2, -3, -4	None of these
84	2	What is the value of x x = 0 while (x < 100): x+=2 print(x)	D	1	101	99	None of the above, this is an infinite loop	100
85	2	What is the output of the following nested loop for num in range(10, 14): for i in range(2, num): if num%i == 1: print(num) break	B	1	11 12 13 14	10 11 12 13	9 10 11 12	12 13 14 15
86	2	What will be the output of the following Python code? i = 1 while True: if i%3 == 0: break print(i) i += 1	A	1	1 2	1 2 3	Error	None of these
87	2	What will be the output of the following Python code? i = 1 while True: if i%2 == 0: break print(i) i += 2	D	1	1	1 2	1 2 3 4 5 6...	1 3 5 7 9 11 ...
88	2	What will be the output of the following Python code? i = 2 while True: if i%3 == 0: break print(i) i += 2	B	1	2 4 6 8 10..	2 4	2 3	Error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
89	2	What will be the output of the following Python code? i = 1 while False: if i%2 == 0: break print(i) i += 2	D	1	1	1 3 5 7..	1 2 3 4..	None of these
90	2	What will be the output of the following Python code? True = False while True: print(True) break	D	1	TRUE	FALSE	None	None of these
91	2	What will be the output of the following Python code? for i in range(0): print(i)	B	1	0	No output	Error	None of mentioned
92	2	What will be the output of the following Python code? for i in range(2.0): print(i)	C	1	0.0 1.0	0 1	Error	None of mentioned
93	2	What will be the output of the following Python code? for i in range(int(2.0)): print(i)	B	1	0.0 1.0	0 1	Error	None of mentioned
94	2	What will be the output of the following Python code? for i in range(float('inf')): print (i)	D	1	0.0 0.1 0.2 0.3 ...	0 1 2 3 ...	0.0 1.0 2.0 3.0 ...	None of mentioned
95	2	What will be the output of the following Python code? for i in range(5): if i == 5: break else: print(i) else: print("Here")	A	1	0 1 2 3 4 Here	0 1 2 3 4 5 Here	0 1 2 3 4	1 2 3 4 5
96	2	What will be the output of the following Python code? for i in range(10): if i == 5: break else: print(i) else: print("Here")	C	1	0 1 2 3 4 Here	0 1 2 3 4 5 Here	0 1 2 3 4	1 2 3 4 5

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97	2	What will be the output of the following Python code snippet? x = 2 for i in range(x): x -= 2 print (x)	B	1	0 1 2 3 4	0 -2	0	Error
98	2	What will be the output of the following Python code snippet? x = 2 for i in range(x): x += 1 print (x)	C	1	0 1 2 3 4..	0 1	3 4	0 1 2 3
99	2	What will be the output of the following Python code? i = 0 while i < 5: print(i) i += 1 if i == 3: break else: print(0)	A	1	0 1 2	0 1 2 0	Error	None of these
100	2	What will be the output of the following Python code? i = 0 while i < 3: print(i) i += 1 else: print(0)	C	1	0 1 2	0 1 2 3 0	0 1 2 0	Error
101	2	What will be the output of the following Python code? x = "abcdef" i = "i" while i in x: print(i, end=" ")	A	1	no output	iiiiii ...	a b c d e f	abcdef
102	2	What will be the output of the following Python code? x = "abcdef" i = "a" while i in x: print('i', end = " ")	B	1	no output	iiiiii ...	a a a a a a ...	abcdef

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103	2	What will be the output of the following Python code? x = "abcdef" i = "a" while i in x: x = x[1:] print(i, end = " ")	B	1	a a a a a	a	No output	Error
104	2	What will be the output of the following Python code? x = 'abcd' for i in range(len(x)): print(i)	D	1	a b c d	error	1 2 3 4	0 1 2 3
105	2	What will be the output of the following Python code? x = 2 for i in range(x): x -= 2 print (x)	B	1	0 1 2 3 4 ...	0 -2	0	error
106	2	Suppose you have two variables x and y defined. if statement is used to evaluate whether x is less than y. The statement should not do anything, even if the condition is true. The following is the correct code for that. Then which of the given option is correct? if x < y: pass	A	1	TRUE	FALSE	Can't predict	None of these
107	2	The continue statement can be used in?	D	1	while loop	for loop	do-while	Both A and B
108	2	I went to interview at a village. There were 100 houses in a row. When I interviewed the first 15 houses, I was too exhausted then I stopped. What statement is used in the example?	C	1	continue statement	pass statement	break statement	None of mentioned
109	2	There were three computer in the shop, when shiv went in the store. He pick the first computer and he skip to take every third computer. What statement that used in this example?	A	1	continue statement	pass statement	break statement	None of mentioned
110	2	Write a program to determine a given number is 'odd' or 'even' and print the following message "Number is ODD" or "Number is Even".		3				
111	2	Write a program to check if the input number is positive, negative or zero.		3				
112	2	Write a program to find the maximum number among the three input numbers.		7				
113	2	Write a program to check if year is a leap year or not (Nested If).		7				
114	2	Write a program to find sum of first N natural number given by user.		4				
115	2	Write a program to find average of first N natural number given by user.		4				
116	2	Write a python program to read three numbers (a,b,c) and check how many numbers between 'a' and 'b' are divisible by 'c'.		4				
117	2	Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.		4				

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118	2	Write a Python program to print the multiplication table of given number by user.		4				
119	2	Write a program to find the factorial of a number provided by the user.		4				
120	2	Write a python program to display the Fibonacci sequence up to n-th term.		4				
121	2	Write a program to take 10 values from keyboard using loop and print their average on the screen		4				
122	2	Write a program to reverse a number.		7				
123	2	Write a program to check whether a number is Armstrong number or not.		7				
124	2	Write a program to check if a number is prime or not.		7				
125	2	Write a program to print prime number between given interval from user		7				
126	2	Draw a pattern using a python program: * * * * * * * * * *		7				
127	2	Draw a pattern: * * * * * * * * * *		7				
128	2	Draw a pattern using a python program: * * * * * * * * * *		7				
129	2	Draw a pattern: * * * * * * * * * *		7				
130	2	Draw a pattern using a python program: 1 2 3 4 5 1 2 3 4 1 2 3 1 2 1		7				
131	2	Draw a pattern using a python program: 1 1 2 1 2 3 1 2 3 4		7				

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132	2	Draw a pattern using a python program: 1 2 2 3 3 3 4 4 4 4		7				
133	2	Draw a pattern using a python program: * # # * * * # # # #		7				
134	2	Draw a pattern using a python program: 1 0 1 1 0 1 0 1 0 1		7				
135	2	Draw a pattern using a python program: 1 1 2 1 2 3 1 2 3 4		7				
136	2	Draw a pattern using a python program: 1 2 2 3 3 3 4 4 4 4		7				
137	2	Draw a pattern using a python program: * # # * * * # # # #		7				
138	3	What is the output of the following function call? def fun1(name, age=20): print(name, age) fun1('Emma', 25)	A	1	Emma 25	Emma 20	Emma, 25	Emma, 20

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139	3	What will be the output of the following Python code? a=10 b=20 def change(): global b a=45 b=56 change() print(a) print(b)	A	1	10 56	45 56	10 20	Syntax Error
140	3	What will be the output of the following Python code? def display(b, n): while n > 0: print(b,end="") n=n-1 display('z',3)	A	1	zzz	zz	An exception is executed	Infinite Loop
141	3	What will be the output of the following Python code? def fun(x,y,z): return x + y + z print(fun(2,30,400))	A	1	432	24000	430	No output
142	3	What will be the output of the following Python code? def func(): global value value = "Local" value = "Global" func() print(value)	A	1	Local	Global	None	Error
143	3	What will be the output of the following Python code? def say(message, times = 1): print(message * times) say('Hello') say('World', 5)	A	1	Hello WorldWorldWorldWorldWo rld	Hello World 5	Hello World,World,World,World, World	Hello HelloHelloHelloHelloHello
144	3	What will be the output of the following Python code? def sub(a,b): print(a-b) sub(100,200) sub(200,100)	A	1	-100 100	100 100	100 -100	-100 -100

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
145	3	What will be the output of the following Python code? x = 50 def func(x): print('x is', x) x = 2 print('Changed local x to', x) func(x) print('x is now', x)	A	1	x is 50 Changed local x to 2 x is now 50	x is 50 Changed local x to 2 x is now 2	x is 50 Changed local x to 2 x is now 100	None of the mentioned
146	3	Which of the following is the use of function in python?	A	1	Functions are reusable pieces of programs	Functions don't provide better modularity for your application	you can't also create your own functions	All of the mentioned
147	3	Which one of the following is the correct way of calling a function?	A	1	function_name()	call function_name()	ret function_name()	function function_name()
148	3	What are the two main types of functions?	B	1	Custom function	Built-in function & User defined function	User function	System function
149	3	What is a variable defined outside a function referred to as?	B	1	A static variable	A global variable	A local variable	An automatic variable
150	3	What is the output of the following function call? def display_person(*args): for i in args: print(i) display_person("Emma", 25, '5')	B	1	25	Emma 25 5	Emma	TypeError
151	3	What will be the output of the following Python code? def C2F(c): return c * 9/5 + 32 print(C2F(100)) print(C2F(0))	B	1	212 32	212.0 32.0	567 98	None of the mentioned
152	3	What will be the output of the following Python code? def function1(var1=5, var2=7): var2=9 var1=3 print (var1, " ", var2) function1(10,12)	B	1	5 7	3 9	10 12	Error
153	3	What will be the output of the following Python code? def maximum(x, y): if x > y: return x elif x == y: return 'The numbers are equal' else: return y print(maximum(2, 3))	B	1	2	3	The numbers are equal	None of the mentioned

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
154	3	What will be the output of the following Python code? def power(x, y=2): r = 1 for i in range(y): r = r * x return r print(power(3)) print(power(3,3))	B	1	212 32	9 27	567 98	None of the mentioned
155	3	What will be the output of the following Python code? x = 50 def func(): global x print('x is', x) x = 2 print('Changed global x to', x) func() print('Value of x is', x)	B	1	x is 50 Changed global x to 2 Value of x is 50	x is 50 Changed global x to 2 Value of x is 2	x is 50 Changed global x to 50 Value of x is 50	None of the mentioned
156	3	Which of the following is incorrect way of using an argument while defining a function in Python, where var1 and var2 are two arguments?	B	1	def fn(var1, var2)	def fn(*var1, var2)	def fn(var1, var2=5)	def fn(var1,*var2)
157	3	How is a function declared in Python?	C	1	def function function_name():	declare function function_name():	def function_name():	declare function_name():
158	3	If a function doesn't have a return statement, which of the following does the function return?	C	1	int	null	None	An exception is thrown without the return statement
159	3	What is a variable defined inside a function referred to as?	C	1	A global variable	A volatile variable	A local variable	An automatic variable
160	3	What is the output of the add() function call? def add(a, b): return a+5, b+5 result = add(3, 2) print(result)	C	1	15	8	(8,7)	Syntax Error
161	3	What will be the output of the following Python code? def change(i = 1, j = 2): i = i + j j = j + 1 print(i, j) change(j = 1, i = 2)	C	1	1 2	3 3	3 2	An exception is thrown because of conflicting values
162	3	What will be the output of the following Python code? def cube(x): return x*x*x x = cube(3) print(x)	C	1	9	3	27	30

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
163	3	What will be the output of the following Python code? def func(a, b=5, c=10): print('a is', a, 'and b is', b, 'and c is', c) func(3, 7) func(25, c = 24) func(c = 50, a = 100)	C	1	a is 7 and b is 3 and c is 10 a is 25 and b is 5 and c is 24 a is 5 and b is 100 and c is 50	a is 3 and b is 7 and c is 10 a is 5 and b is 25 and c is 24 a is 50 and b is 100 and c is 5	a is 3 and b is 7 and c is 10 a is 25 and b is 5 and c is 24 a is 100 and b is 5 and c is 50	None of the mentioned
164	3	What will be the output of the following Python code? def function1(var1,var2=5): var1=2 var3=var1*var2 return var3 var1=3 print(function1(var1,var2))	C	1	10	15	Error as var2 is not defined while calling the function	Does not give any error as var2 is a default argument
165	3	What will be the output of the following Python code? def printMax(a, b): if a > b: print(a, 'is maximum') elif a == b: print(a, 'is equal to', b) else: print(b, 'is maximum') printMax(3, 4)	C	1	3	4	4 is maximum	None of the mentioned
166	3	What will be the output of the following Python code? i=0 def change(i): i=i+1 return i change(1) print(i)	C	1	1	Nothing is displayed	0	An exception is thrown
167	3	Which keyword is used for function?	C	1	fun	define	def	function
168	3	Which of the following function headers is correct?	C	1	def fun(a = 2, b = 3, c)	def fun(a = 2, b, c = 3)	def fun(a, b = 2, c = 3)	def fun(a, b, c = 3, d)
169	3	Choose the correct function declaration of fun1() so that we can execute the following function call successfully fun1(25, 75, 55) fun1(10, 20)	D	1	def fun1(**kwargs)	No, it is not possible in Python	def fun1(args*)	def fun1(*data)
170	3	Functions which are already defined in python is called a	D	1	user defined function	library functions	built in functions	Both B and C
171	3	What happens if a local variable exists with the same name as the global variable you want to access?	D	1	Error	The local variable is shadowed	Undefined behavior	The global variable is shadowed
172	3	What is the output of the following function call? def fun1(num): return num + 25 fun1(5) print(num)	D	1	25	5	30	NameError

L.J Institute of Engineering and Technology, Ahmedabad.
FCSP-1 Question Bank (SEM-III)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
173	3	Which are the advantages of functions in python?	D	1	Reducing duplication of code	Decomposing complex problems into simpler pieces	Improving clarity of the code	All of the mentioned
174	3	Which of the following items are present in the function header?	D	1	function name	parameter list	return value	Both A and B
175	3	Create a pair of functions to convert Fahrenheit to Celsius temperature values and vice versa. Where $C = (F - 32) * (5 / 9)$		5				
176	3	Write a Python function to calculate the factorial of a given number.		4				
177	3	Write a Python function to check whether a number is in a given range.		4				
178	3	Write a Python function to display the Fibonacci sequence till the given user input n.		4				
179	3	Write a Python function to find the Max of TWO numbers.		3				
180	3	Write a Python program to accept two numbers and check it for odd or even number		3				
181	3	Write a Python program to check whether the given no is Armstrong or not using user defined function.		5				
182	3	Write a python program to demonstrate a function to print the number 1 to 5.		3				
183	3	Write a Python Program to demonstrate a Simple Calculator using python functions		5				
184	3	Write a Python program to demonstrate the function of finding sum and average of first n natural numbers.		4				
185	3	Write a Python program to demonstrate the function of finding multiplication of first n natural numbers.		3				
186	3	Write a Python program to find reverse of given number using user defined function.		4				
187	3	Write a Python function that checks whether a passed string is palindrome or not		5				
188	3	Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.		5				
189	4	Which of the following is False?	C	1	String is immutable.	lower() function in string is used to return a string by converting the whole given string into lowercase.	capitalize() function in string is used to return a string by converting the whole given string into uppercase.	None of these
190	4	What arithmetic operators cannot be used with strings?	A	1	-	+	*	All of the mentioned
191	4	Name the function which is used to find length of string.	B	1	length()	len()	slen()	strlen()
192	4	What will be the output of above Python code? >>>str1="6/4" >>>print("str1")	C	1	1	6/4	str1	1.5
193	4	Which of the following will result in an error? >>>str1="python"	B	1	print(str1[1])	str1[2]="a"	print(str1[0:6])	Both (b) and (c)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
194	4	What will be the output of below Python code? >>>str1="Programming" >>>print(str1[3:8])	B	1	ogram	gramm	rammin	ogramming
195	4	What will the below Python code will return? >>>str1="save paper,save trees" >>>str1.find("save")	B	1	It returns the first index position of the last occurrence of "save" in the given string str1.	It returns the first index position of the first occurrence of "save" in the given string str1.	It returns the last index position of the last occurrence of "save" in the given string str1.	It returns the last index position of the first occurrence of "save" in the given string str1.
196	4	Which of the following will give "Aryan" as output? >>>str1="Vishv,Aryan,Devarsh"	D	1	print(str1[-9:-12])	print(str1[-12:-7])	print(str1[-13:-6])	print(str1[-13:-8])
197	4	What will following Python code return? >>>str1="LJ University" >>>print(len(str1))	A	1	13	12	11	14
198	4	What will be the output of the following Python statement? >>>"abcdef"[2:8]	B	1	cde	cdef	bcdef	def
199	4	What will be the output of the following Python statement? >>>print('new' 'line')	D	1	Error	Output equivalent to print 'new\nline'	new line	newline
200	4	What will be the output of the following Python code? >>>str1="hello world" >>>str1[::-1]	C	1	hello	world	dlrow olleh	hello world
201	4	What will be the output of the following Python code? x = ['ab', 'cd'] for i in x: i.upper() print(x)	A	1	['ab', 'cd']	['AB', 'CD']	[None, None]	none of the mentioned
202	4	What will be the output of the following Python code? x = 'abcd' for i in range(len(x)): i.upper() print (x)	C	1	a b c d	0 1 2 3	error	None of mentioned
203	4	What will be the output of the following Python code? >>>>print('abcd1234'.isalnum())	A	1	True	False	None	Error
204	4	Select the correct output of the following String operations. >>>str1 = "my isname isis jameis isis bond"; >>>sub = "is"; >>>print(str1.count(sub, 5))	C	1	5	7	6	4
205	4	What is the output of the following string comparison. >>>print("John" > "Jhon") >>>print("Emma" < "Emm")	B	1	True True	True False	False True	False False

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
206	4	Select the correct output of the following String operations. str1 = 'Welcome' print (str1[:6] + 'LIJET')	D	1	WelcoLIJET	Welcome LIJET	WelcomeLIJET	WelcomLIJET
207	4	Guess the correct output of the following code? str1 = "LIJET" print(str1[1:4], str1[:5], str1[4:], str1[0:-1], str1[:-1])	A	1	JIE LIJET T LJIE LJIE	JIE LIJET T LJ I LJ I	JIE LIJET T LIJET LIJET	JIE LIJET T LJIE LJ I
208	4	Which of the following is a Python tuple?	B	1	[1, 2, 3]	(1, 2, 3)	{1, 2, 3}	{}
209	4	Which of the following creates a tuple?	B	1	tuple1=(5)*2	tuple1=("a","b")	tuple1[2]="a","b")	None of the above
210	4	What type will be printed when the following code executes? >>>aTuple = ("Orange") >>>print (type(aTuple))	D	1	list	tuple	array	str
211	4	What will the following code return? >>>def practice(tup): >>> a, b, c = tup >>> return b >>>aTuple = "Orange", 30, "White" >>>practice(aTuple)	B	1	Orange	30	White	("Orange", 30, "White")
212	4	Suppose t = (1, 2, 4, 3), which of the following is incorrect?	B	1	print(t[3])	t[3] = 45	print(max(t))	print(len(t))
213	4	What will be the output of the following Python code? >>>t=(1,2,4,3) >>>t[1:3]	C	1	(1, 2)	(1, 2, 4)	(2, 4)	(2, 4, 3)
214	4	What will be the output of the following Python code? >>>t=(1,2,4,3) >>>t[1:-1]	C	1	(1, 2)	(1, 2, 4)	(2, 4)	(2, 4, 3)
215	4	What will be the output of the following Python code? >>>t = (4,6) >>>2*t	A	1	(4,6, 4, 6)	[4,6,4,6]	(4,4,6,6)	[4,4,6,6]
216	4	What will be the output of the following Python code? >>>tuple1=(2,3,4) >>>tuple3=tuple1*2 >>>print(tuple3)	B	1	(4,6,8)	(2,3,4,2,3,4)	(2,2,3,3,4,4)	Error
217	4	What will be the output of the following Python code? >>>t1 = (1, 2, 4, 3) >>>t2 = (1, 2, 3, 4) >>>t1 < t2	B	1	True	False	Error	None
218	4	What will be the output of the following Python code? >>>my_tuple = (1, 2, 3, 4) >>>my_tuple.append((1,2,3)) >>>print len(my_tuple)	D	1	1	2	5	Error
219	4	What is the data type of (1)?	B	1	Tuple	Integer	List	Both tuple and integer

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
220	4	If a=(1,2,3,4), a[1:-1] is _____	D	1	Error, tuple slicing doesn't exist	[2,3]	(2,3,4)	(2,3)
221	4	What will be the output of the following Python code? >>> a=(1,2,(4,5)) >>> b=(1,2,(3,4)) >>> a<b	A	1	False	True	Error, < operator is not valid for tuples	Error, < operator is valid for tuples but not if there are sub-tuples
222	4	What will be the output of the following Python code? >>> a=("Check")*3 >>> a	C	1	('Check','Check','Check')	* Operator not valid for tuples	('CheckCheckCheck')	Syntax error
223	4	What will be the output of the following Python code? >>> a=(1,2,3,4) >>> del(a[2])	D	1	Now, a=(1,2,4)	Now, a=(1,3,4)	Now a=(3,4)	Error as tuple is immutable
224	4	What will be the output of the following Python code? >>> a=(2,3,4) >>> sum(a,3)	C	1	Too many arguments for sum() method	The method sum() doesn't exist for tuples	12	9
225	4	Is the following Python code valid? >>> a=(1,2,3,4) >>> del a	C	1	No because tuple is immutable	Yes, first element in the tuple is deleted	Yes, the entire tuple is deleted	No, invalid syntax for del method
226	4	What type of data is: a=[(1,1),(2,4),(3,9)]?	B	1	Array of tuples	List of tuples	Tuples of lists	Invalid type
227	4	What will be the output of the following Python code? >>> a=(0,1,2,3,4) >>> b=slice(0,2) >>> a[b]	C	1	Invalid syntax for slicing	[0,2]	(0,1)	(0,2)
228	4	Choose the correct option for Tuple.	C	1	In Python, a tuple can contain only integers as its elements.	In Python, a tuple can contain only strings as its elements.	In Python, a tuple can contain both integers and strings as its elements.	In Python, a tuple can contain either string or integer but not both at a time.
229	4	What will be the output of below Python code? tupl=("annie","hena","sid") print(tupl[-3:0])	B	1	("annie")	()	None	Error as slicing is not possible in tuple.
230	4	Which of the following options will not result in an error when performed on tuples in Python where tupl=(5,2,7,0,3)?	C	1	tupl[1]=2	tupl.append(2)	tupl1=tupl+tupl	tupl.sort()
231	4	What will be the output of below Python code? tupl=() tupl1=tupl*2 print(len(tupl1))	A	1	0	2	1	Error as tuple object has no attribute to len
232	4	What will be the output of below Python code? tupl=([2,3],"abc",0,9) tupl[0][1]=1 print(tupl)	C	1	([2,3],"abc",0,9)	([1,3],"abc",0,9)	([2,1],"abc",0,9)	Error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
233	4	Which of the following two Python codes will give same output? (i) print(tupl[:-1]) (ii) print(tupl[0:5]) (iii) print(tupl[0:4]) (iv) print(tupl[-4:]) If tupl=(5,3,1,9,0)	D	1	i, ii	ii, iv	i, iv	i, iii
234	4	Which of the following would complete val = to set val to 20 by slicing aTuple. >>>aTuple = ("Orange", (10, 20, 30), (5, 15, 25)) >>>val =	A	1	val = aTuple[1][1]	val = aTuple[1:2](1)	val = aTuple[2][1]	val = aTuple[1:2][1]
235	4	What is the output of the following. aTuple = (10, 20, 30, 40, 50, 60, 70, 80) print(aTuple[2:5], aTuple[4], aTuple[3:])	C	1	(30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70)	(30, 40, 50) (10, 20, 30) (40, 50, 60)	(30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70, 80)	None of the these
236	4	What will be the output of the following Python code? >>>t = (1, 2, 4, 3, 8, 9) >>>for i in range(0, len(t), 2): >>> print(t[i],end=" ")	D	1	1 4 9	2 3 9	1 2 4	1 4 8
237	4	Find the output of the given Python program >>> t1 = (1,2) >>> t2 = (2,1) >>> x = (t1 == t2) >>> print(x)	A	1	False	True	Error	None
238	4	Write a Python program to check if a string is palindrome or not.		4				
239	4	Write a Python program to Find length of a string in python.		4				
240	4	Write a Python function to find length of a string in python without using len function.		7				
241	4	Write a Python function that accepts a string and calculate the number of uppercase letters and lowercase letters.		4				
242	4	Write a Python program to demonstrate the negative index in a Tuple		4				
243	4	Write a program to remove l'th character from string in python.		4				
244	4	Write a program to create a string made of first,middle and last character.		4				
245	4	Write a program to find all occuences of a sub string in a given string by ignoring the case.		4				
246	4	Write a program to calculate the sum and average of the digits present in a string.		4				
247	4	Write a program to reverse a given string		4				
248	4	Write a Python program to print even length words in a string.		7				
249	4	Write a Python program to Uppercase Half String from the given string.		4				
250	4	Write a Python program to capitalize the first and last character of each word in a string		4				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
251	4	Write a program to Create a string made of the middle three characters		4				
252	4	Write a program to check if two strings are balanced. For example, strings s1 and s2 are balanced if all the characters in the s1 are present in s2. The character's position doesn't matter.		7				
253	4	Write a program to Split a string on hyphens		4				
254	4	Write any program to demonstrate Tuples in Python		7				
255	4	Write a Python program to demonstrate the slicing of a Tuple		7				
256	4	Write a program to print maximum and minimum elements in given Tuple.		7				
257	4	Write a Program to print even numbers from given Tuple.		4				
258	4	Write a program to print sum of even numbers and sum of odd numbers from elements given in tuple.		7				
259	5	Which of the following commands will create a list?	D	1	list1 = list()	list1 = []	list1 = list([1, 2, 3])	All of the mentioned
260	5	What is the output when we execute list("hello")?	A	1	['h', 'e', 'l', 'l', 'o']	['hello']	['llo']	['olleh']
261	5	Suppose listExample is ['h','e','l','l','o'], what is len(listExample)?	A	1	5	4	None	Error
262	5	Suppose list1 is [2445,133,12454,123], what is max(list1)?	C	1	2445	133	12454	123
263	5	Suppose list1 is [3, 5, 25, 1, 3], what is min(list1)?	D	1	3	5	25	1
264	5	Suppose list1 is [1, 5, 9], what is sum(list1)?	C	1	1	9	15	Error
265	5	Suppose list1 is [1, 3, 2], What is list1 * 2?	C	1	[2, 6, 4]	[1, 3, 2, 1, 3]	[1, 3, 2, 1, 3, 2]	[1, 3, 2, 3, 2, 1]
266	5	What will be the output of the following Python code? >>>list1 = [11, 2, 23] >>>list2 = [11, 2, 2] >>>list1 < list2	B	1	TRUE	FALSE	ERROR	None of the mentioned
267	5	What will be the output of the following Python code? names1 = ['Amir', 'Bala', 'Chales'] if 'amir' in names1: print(1) else: print(2)	C	1	1	Error	2	None of the mentioned
268	5	What will be the output of the following Python code? list1 = [1, 2, 3, 4] list2 = [5, 6, 7, 8] print(len(list1 + list2))	D	1	2	4	5	8
269	5	Which of the following would give an error?	D	1	. list1=[]	list1=[]*3	list1=[2,8,7]	None of the above
270	5	Suppose list1 is [4, 2, 2, 4, 5, 2, 1, 0], Which of the following is correct syntax for slicing operation?	D	1	print(list1[0])	print(list1[:2])	print(list1[:-2])	All of the mentioned
271	5	Suppose list1 is [2, 33, 222, 14, 25], What is list1[-1]?	C	1	Error	None	25	2
272	5	Suppose list1 is [2, 33, 222, 14, 25], What is list1[:-1]?	A	1	[2, 33, 222, 14]	Error	25	[25, 14, 222, 33, 2]
273	5	What will be the output of the following Python code? >>>names = ['Amir', 'Bear', 'Charlton', 'Daman'] >>>print(names[-1][-1])	D	1	A	Daman	Error	n

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
274	5	Which of the following is False regarding loops in Python?	C	1	Loops are used to perform certain tasks repeatedly	While loop is used when multiple statements are to executed repeatedly until the given condition becomes False	While loop is used when multiple statements are to executed repeatedly until the given condition becomes True	for loop can be used to iterate through the elements of lists.
275	5	Which of the following is True regarding loops in Python?	C	1	Loops should be ended with keyword "end".	No loop can be used to iterate through the elements of strings.	Keyword "break" can be used to bring control out of the current loop	Keyword "continue" is used to continue with the remaining statements inside the loop
276	5	Which of the following Python code will give different output from the others?	C	1	for i in range(0,5): print(i)	for j in [0,1,2,3,4]: print(j)	for k in [0,1,2,3,4,5]: print(k)	for l in range(0,5,1): print(l)
277	5	What will be the output of the following Python code? names1 = ['Amir', 'Bear', 'Charlton', 'Daman'] names2 = names1 names3 = names1[:] names2[0] = 'Alice' names3[1] = 'Bob' sum = 0 for ls in (names1, names2, names3): if ls[0] == 'Alice': sum += 1 if ls[1] == 'Bob': sum += 10 print(sum)	B	1	11	12	21	22
278	5	What will be the output of the following Python code? lst=[3,4,6,1,2] lst[1:2]=[7,8] print(lst)	A	1	[3, 7, 8, 6, 1, 2]	Syntax error	[3,[7,8],6,1,2]	[3,4,6,7,8]
279	5	What will be the output of below Python code? list1=[8,0,9,5] print(list1[::-1])	A	1	[5,9,0,8]	[8,0,9]	[8,0,9,5]	[0,9,5]
280	5	Suppose list1 = [0.5 * x for x in range (0, 4)], list1 is:	C	1	[0, 1, 2, 3]	[0, 1, 2, 3, 4]	[0.0, 0.5, 1.0, 1.5]	[0.0, 0.5, 1.0, 1.5, 2.0]
281	5	To add a new element to a list we use which command?	B	1	list1.add(5)	list1.append(5)	list1.addLast(5)	list1.addEnd(5)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
282	5	What will be the output of the following Python code? numbers = [1, 2, 3, 4] numbers.append([5,6,7,8]) print(len(numbers))	B	1	4	5	8	12
283	5	What will be the output of the following Python code? a=[1,2,3] b=a.append(4) print(a) print(b)	B	1	[1,2,3,4] [1,2,3,4]	[1, 2, 3, 4] None	Syntax error	[1,2,3] [1,2,3,4]
284	5	What is returned by the following function? def list_transformation(): alist = [4, 2, 8, 6, 5] blist = [] for item in alist: blist.append(item+5) return blist	C	1	[4, 2, 8, 6, 5]	[4, 2, 8, 6, 5, 5]	[9, 7, 13, 11, 10]	Error, you cannot concatenate inside an append.
285	5	What will the following code print? def mystery(num_list): out = [] for num in num_list: if num > 10: out.append(num) return out print(mystery([5, 10, 15, 20]))	C	1	[10, 15, 20]	[20, 15]	[15, 20]	[20, 15, 10]
286	5	Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1.count(5)?	D	1	0	4	1	2
287	5	What will be the output of the following Python code? x = [1, 2, 3] y = [7, 8, 9] x.extend(y) print(x)	A	1	[1, 2, 3, 7, 8, 9]	[1, 2, 3, 7, 9]	[7, 8, 9]	[1, 2, 3]
288	5	What will be the output of the following Python code? x = [1, 2, 3] y = "789" x.extend(y) print(x)	D	1	[1, 2, 3, 7, 8, 9]	[1, 2, 3]	['7', '8', '9']	[1, 2, 3, '7', '8', '9']
289	5	What will be the value of 'result' in following Python program? list1 = [1,2,3,4] list2 = [2,4,5,6] list3 = [2,6,7,8] result = list() result.extend(i for i in list1 if i not in (list2+list3) and i not in result) result.extend(i for i in list2 if i not in (list1+list3) and i not in result) result.extend(i for i in list3 if i not in (list1+list2) and i not in result)	A	1	[1, 3, 5, 7, 8]	[1, 7, 8]	[1, 2, 4, 7, 8]	error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
290	5	Suppose list1 is [3, 4, 5, 20, 5], what is list1.index(5)?	D	1	0	1	4	2
291	5	To insert 5 to the third position in list1, we use which command?	B	1	list1.insert(3, 5)	list1.insert(2, 5)	list1.add(3, 5)	list1.append(3, 5)
292	5	What will be the output of the following Python code? veggies = ['carrot', 'broccoli', 'potato', 'asparagus'] veggies.insert(veggies.index('broccoli'), 'celery') print(veggies)	A	1	['carrot', 'celery', 'broccoli', 'potato', 'asparagus']	['carrot', 'celery', 'potato', 'asparagus']	['carrot', 'broccoli', 'celery', 'potato', 'asparagus']	['celery', 'carrot', 'broccoli', 'potato', 'asparagus']
293	5	What will be the result after the execution of above Python code? list1=[3,2,5,7,3,6] list1.pop(3) print(list1)	A	1	[3,2,5,3,6]	[2,5,7,3,6]	[2,5,7,6]	[3,2,5,7,3,6]
294	5	To remove string "hello" from list1, we use which command?	A	1	list1.remove("hello")	list1.remove(hello)	list1.removeAll("hello")	list1.removeOne("hello")
295	5	What will be the output of below Python code? list1=[1,3,5,2,4,6,2] list1.remove(2) print(sum(list1))	A	1	21	20	18	17
296	5	Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse()?	D	1	[3, 4, 5, 20, 5, 25, 1, 3]	[1, 3, 3, 4, 5, 5, 20, 25]	[25, 20, 5, 5, 4, 3, 3, 1]	[3, 1, 25, 5, 20, 5, 4, 3]
297	5	What will be the output of below Python code? numbers = [1, 3, 4, 2] numbers.sort() print(numbers)	A	1	[1, 2, 3, 4]	[1, 3, 4]	[1, 2, 3]	[2, 3, 4]
298	5	What will be the output of below Python code? decimalnumber = [2.01, 2.00, 3.67, 3.28, 1.68] decimalnumber.sort() print(decimalnumber)	D	1	[1.68, 2, 2.01, 3.28, 3.67]	[1.68, 2.0, 2.01, 3, 3]	[1, 2, 2, 3, 3]	[1.68, 2.0, 2.01, 3.28, 3.67]
299	5	What will be the output of below Python code? words = ["Geeks", "For", "Geeks"] words.sort() print(words)	C	1	['Geeks', 'For', 'Geeks']	['For', 'Geeks']	['For', 'Geeks', 'Geeks']	[For, Geeks, Geeks]
300	5	What will be the output of the following Python code snippet? d = {"john":40, "peter":45} "john" in d	A	1	TRUE	FALSE	NONE	ERROR
301	5	What will be the output of the following Python code snippet? d1 = {"john":40, "peter":45} d2 = {"john":466, "peter":45} d1 == d2	B	1	TRUE	FALSE	NONE	ERROR
302	5	What will be the output of the following Python code snippet? d = {"john":40, "peter":45} d["john"]	A	1	40	45	"john"	"peter"

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
303	5	What will be the output of the following Python code? d = {0: 'a', 1: 'b', 2: 'c'} for i in d: print(i)	A	1	0 1 2	a b c	0 a 1 b 2 c	none of the mentioned
304	5	Suppose d = {"john":40, "peter":45}. To obtain the number of entries in dictionary which command do we use?	B	1	d.size()	len(d)	size(d)	d.len()
305	5	What will be the output of the following Python code snippet? d = {"john":40, "peter":45} print(list(d.keys()))	A	1	["john", "peter"]	[["john":40, "peter":45]	("john", "peter")	("john":40, "peter":45)
306	5	Which of the following is not a declaration of the dictionary?	C	1	{1: 'A', 2: 'B'}	dict([[1,"A"],[2,"B"]])	{1,"A",2"B"}	{ }
307	5	Which of the following isn't true about dictionary keys?	C	1	More than one key isn't allowed	Keys must be immutable	Keys must be integers	When duplicate keys encountered, the last assignment wins
308	5	Which of the statements about dictionary values is false?	C	1	More than one key can have the same value	The values of the dictionary can be accessed as dict[key]	Values of a dictionary must be unique	Values of a dictionary can be a mixture of letters and numbers
309	5	What will be the output of the following Python code? >>> a=dict() >>> a[1]	A	1	An exception is thrown since the dictionary is empty	''	1	0
310	5	What will be the output of the following Python code? a={} a[2]=1 a[1]=[2,3,4] print(a[1][1])	B	1	[2,3,4]	3	2	An exception is thrown
311	5	What will be the output of the following Python code snippet? test = {1:'A', 2:'B', 3:'C'} test = {} print(len(test))	A	1	0	NONE	3	An exception is thrown
312	5	What will be the output of the following Python code snippet? numbers = {} letters = {} comb = {} numbers[1] = 56 numbers[3] = 7 letters[4] = 'B' comb['Numbers'] = numbers comb['Letters'] = letters print(comb)	D	1	Error, dictionary in a dictionary can't exist	'Numbers': {1: 56, 3: 7}	{'Numbers': {1: 56}, 'Letters': {4: 'B'}}	{'Numbers': {1: 56, 3: 7}, 'Letters': {4: 'B'}}
313	5	Which of the following statements create a dictionary?	D	1	d = {}	d = {"john":40, "peter":45}	d = {40:"john", 45:"peter"}	All of the mentioned

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
314	5	What will be the output of the following Python code? a={1:"A",2:"B",3:"C"} for i in a: print(i,end=" ")	A	1	1 2 3	'A' 'B' 'C'	1 'A' 2 'B' 3 'C'	Error, it should be: for i in a.items():
315	5	What will be the output of the following Python code? text = {1: "geeks", 2: "for"} text.clear() print(text)	B	1	{1: "geeks", 2: "for"}	{}	[1: "geeks", 2: "for"]	[]
316	5	What will be the output of the following Python code? a={1:"A",2:"B",3:"C"} b=a.copy() b[2]="D" print(a)	B	1	Error, copy() method doesn't exist for dictionaries	{1: 'A', 2: 'B', 3: 'C'}	{1: 'A', 2: 'D', 3: 'C'}	"None" is printed
317	5	What will be the output of the following Python code? keys = ('id', 'age', 'perc') value = 0 x = dict.fromkeys(keys, value) print(x)	A	1	{'perc': 0, 'id': 0, 'age': 0}	['perc': 0, 'id': 0, 'age': 0]	{perc: 0, id: 0, age: 0}	{'perc': '0', 'id': '0', 'age': '0'}
318	5	What will be the output of the following Python code? keys = ('id', 'age', 'perc') value = 0 y = dict.fromkeys(keys) print(y)	B	1	{'perc': 0, 'id': 0, 'age': 0}	{'perc': None, 'id': None, 'age': None}	['perc': 0, 'id': 0, 'age': 0]	['perc': None, 'id': None, 'age': None]
319	5	Find the output of the following program: a = {} a.fromkeys(['a', 'b', 'c', 'd'], 98) print (a)	A	1	{}	Syntax error	{'a':98, 'b':98, 'c':98, 'd':98}	{'a':None, 'b':None, 'c':None, 'd':None}
320	5	What is the output of the following piece of code? a={1:"A",2:"B",3:"C"} print(a.get(1,4))	B	1	1	A	4	Invalid syntax for get method
321	5	What is the output of the following piece of code? a={1:"A",2:"B",3:"C"} print(a.get(5,4))	C	1	A	5	4	Invalid syntax for get method
322	5	What will be the output of the following Python code? Dictionary1 = {'A': 'Geeks', 'B': 'For', 'C': 'Geeks'} print(Dictionary1.has_key('A'))	D	1	'Geeks'	Geeks	FALSE	TRUE
323	5	What will be the output of the following Python code? Dictionary1 = {'A': 'Geeks', 'B': 'For', 'C': 'Geeks'} print(Dictionary1.has_key('For'))	C	1	'Geeks'	Geeks	FALSE	TRUE

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
324	5	What will be the output of the following Python code snippet? a={1:"A",2:"B",3:"C"} for i,j in a.items(): print(i,j,end=" ")	A	1	1 A 2 B 3 C	1 2 3	A B C	1:"A" 2:"B" 3:"C"
325	5	What will be the output of the following Python code? >>> a={1:"A",2:"B",3:"C"} >>> a.items()	D	1	Syntax error	dict_items([(1, 'A'), (2, 'B'), (3, 'C')])	dict_items([(1,2,3)])	dict_items([(1, 'A'), (2, 'B'), (3, 'C')])
326	5	What will be the output of the following Python code? Dictionary1 = {'A': 'Geeks', 'B': 'For', 'C': 'Geeks'} print(Dictionary1.keys())	D	1	keys(['A', 'B', 'C'])	(['A', 'B', 'C'])	dict_keys([A, B, C])	dict_keys(['A', 'B', 'C'])
327	5	What will be the output of the following Python code? a={1:"A",2:"B",3:"C"} b={4:"D",5:"E"} a.update(b) print(a)	C	1	{1: 'A', 2: 'B', 3: 'C'}	Method update() doesn't exist for dictionaries	{1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E'}	{4: 'D', 5: 'E'}
328	5	What will be the output of the following Python code? dictionary = {"raj": 2, "striver": 3, "vikram": 4} print(dictionary.values())	C	1	values([2, 3, 4])	([2, 3, 4])	dict_values([2, 3, 4])	dict([2, 3, 4])
329	5	Which of these about a set is not true?	D	1	Mutable data type	Allows duplicate values	Data type with unordered values	Immutable data type
330	5	Which of the following is not the correct syntax for creating a set?	A	1	set([1,2],[3,4])	set([1,2,2,3,4])	set((1,2,3,4))	{1,2,3,4}
331	5	What will be the output of the following Python code? nums = set([1,1,2,3,3,3,4,4]) print(len(nums))	C	1	7	Error, invalid syntax for formation of set	4	8
332	5	Which of the following statements is used to create an empty set?	B	1	{ }	set()	[]	()
333	5	What will be the output of the following Python code? >>> a={5,4} >>> b={1,2,4,5} >>> a<b	A	1	TRUE	FALSE	{1,2}	Invalid operation
334	5	What will be the output of the following Python code? >>> a={5,6,7,8} >>> b={7,8,10,11} >>> a^b	D	1	{5,6,7,8,10,11}	{7,8}	Error as unsupported operand type of set data type	{5,6,10,11}
335	5	What will be the output of the following Python code? >>> s={5,6} >>> s*3	A	1	Error as unsupported operand type for set data type	{5,6,5,6,5,6}	{5,6}	Error as multiplication creates duplicate elements which isn't allowed
336	5	What will be the output of the following Python code? >>> a={5,6,7,8} >>> b={7,5,6,8} >>> a==b	A	1	TRUE	FALSE	ERROR	NONE

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
337	5	What will be the output of the following Python code? >>> a={4,5,6} >>> b={2,8,6} >>> a+b	C	1	{4,5,6,2,8}	{4,5,6,2,8,6}	Error as unsupported operand type for sets	Error as the duplicate item 6 is present in both sets
338	5	What will be the output of the following Python code? >>> a={4,5,6} >>> b={2,8,6} >>> a-b	A	1	{4,5}	{6}	Error as unsupported operand type for set data type	Error as the duplicate item 6 is present in both sets
339	5	Which of these about a frozenset is not true?	A	1	Mutable data type	Allows duplicate values	Data type with unordered values	Immutable data type
340	5	Is the following Python code valid? >>> a=frozenset([5,6,7]) >>> a >>> a.add(5)	B	1	Yes, now a is {5,5,6,7}	No, frozen set is immutable	No, invalid syntax for add method	Yes, now a is {5,6,7}
341	5	What will be the output of the following Python code, if s1= {1, 2, 3}? s1.issubset(s1)	A	1	TRUE	Error	No output	FALSE
342	5	If we have two sets, s1 and s2, and we want to check if all the elements of s1 are present in s2 or not, we can use the function:	B	1	s2.issubset(s1)	s2.issuperset(s1)	s1.issuperset(s2)	s1.issset(s2)
343	5	What will be the output of the following Python code? x = {"apple", "banana", "cherry"} y = {"google", "microsoft", "apple"} z = x.union(y) print(z)	C	1	{'microsoft', 'google', 'apple', 'cherry'}	{'banana', 'microsoft', 'google', 'apple'}	{'banana', 'microsoft', 'google', 'apple', 'cherry'}	{'banana', 'microsoft', 'google', 'apple'}
344	5	What will be the output of the following Python code? s1 = {1, 2, 3} s2 = {2, 3} print(s1.intersection(s2))	C	1	{2}	{1, 2, 3}	{2, 3}	{3}
345	5	What will be the output of the following Python code? x = {"apple", "banana", "cherry"} y = {"google", "microsoft", "apple"} z = x.difference(y) print(z)	D	1	{"apple", "banana", "cherry"}	{"google", "microsoft", "apple"}	{"google", "microsoft",}	{'banana', 'cherry'}
346	5	What will be the output of the following Python code? x = {"apple", "banana", "cherry"} y = {"google", "microsoft", "apple"} z = x.symmetric_difference(y) print(z)	B	1	{"apple", "banana", "cherry"}	{'google', 'banana', 'microsoft', 'cherry'}	{"google", "microsoft",}	{'banana', 'cherry'}
347	5	What will be the output of the following Python code? fruits = {"apple", "banana", "cherry"} x = fruits.copy() print(x)	C	1	{'google', 'banana', 'microsoft', 'cherry'}	{'banana', 'cherry'}	{'banana', 'apple', 'cherry'}	{"google", "microsoft", "apple"}
348	5	Python supports the creation of anonymous functions at runtime, using a construct called _____	A	1	lambda	pi	anonymous	None of the mentioned

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FCSP-1 Question Bank (SEM-III)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
349	5	What will be the output of the following Python code? y = 6 z = lambda x: x * y print(z(8))	A	1	48	14	64	None of the mentioned
350	5	What will be the output of the following Python code? lamb = lambda x: x ** 3 print(lamb(5))	C	1	15	555	125	None of the mentioned
351	5	Does Lambda contain return statements?	B	1	TRUE	FALSE	anonymous	None of the mentioned
352	5	Lambda is a statement	B	1	TRUE	FALSE	anonymous	None of the mentioned
353	5	Lambda contains block of statements.	B	1	TRUE	FALSE	anonymous	None of the mentioned
354	5	What will be the output of the following Python code? def writer(): title = 'Sir' name = (lambda x: title + ' ' + x) return name who = writer() print(who('Arthur'))	B	1	Arthur Sir	Sir Arthur	Arthur	None of the mentioned
355	5	What will be the output of the following Python code? min = (lambda x, y: x if x < y else y) print(min(101*99, 102*98))	C	1	9997	9999	9996	None of the mentioned
356	5	Write a python code to demonstrate any three methods of list		4				
357	5	Write a python code to explain map in Python program.		3				
358	5	Write a python code to explain filter in Python program.		4				
359	5	Write a program that reads the words in words.txt and stores them as keys in a dictionary and count the frequency of it as a value and print 10 records with highest.		4				
360	5	Write a Python program to print the even numbers from a given list.		4				
361	5	Write a Python Program to print the largest even number in a list.		4				
362	5	Write a Python Program to print the largest odd number in a list.		4				
363	5	Write a Python program to swap first and last element of the list.		4				
364	5	Write a Python program to find the sum of all the elements in the list.		4				
365	5	Write a Python function to sum all the numbers in a list		4				
366	5	Write a Python program of Reversing a List.		3				
367	5	Write a Python program to Merging two Dictionaries		4				
368	5	Write a Python program for Words Frequency in String Shorthands.		4				
369	5	Write a Python program to calculate the sum of the positive and negative numbers of a given list of numbers using lambda function.		4				
370	5	Write a Python program to rearrange positive and negative numbers in a given array using Lambda.		4				
371	5	Write a Python program to count the even, odd numbers in a given array of integers using Lambda.		4				
372	5	Write a Python program to add two given lists using map and lambda.		4				

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FCSP-1 Question Bank (SEM-III)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
373	5	Write a Python program to find numbers divisible by nineteen or thirteen from a list of numbers using Lambda.		4				
374	6	In python, the EOL character is represented by _____	C	1	New line character '\n'	carraige return and new line '\r\n'	Both A and B	None of these
375	6	Which of the following can be used to open a file called myText.txt in read-only mode?	D	1	infile = open("myText.txt", "w")	infile = open("myText.txt", r)	infile = open("myText.txt", "read")	infile = open("myText.txt")
376	6	Which of the following can be used to open a file called myText.txt in write-only mode?	C	1	outfile = open("myText.txt", w)	outfile = open("myText.txt", "write")	outfile = open("myText.txt", "w")	outfile = open("myText.txt")
377	6	Which command below closes the already open file myText.txt if the following code has already been written? ref_file = open("myText.txt", "r")	B	1	close()	ref_file.close()	close(ref_file)	close("myText")
378	6	Which of the commands below is used to add the following string to the end of a file object filevar? somestring = "my Sentence"	C	1	filevar.append(somestring)	filevar.write("somestring")	filevar.write(somestring)	somestring.write()
379	6	The contents of names.txt is listed here: Moana Cinderella Tiana Which of the following code blocks will print all of the names in names.txt? I. names = open("names.txt", "r") for line in names: print(names) II. names = open("names.txt", "r") for line in names: print(line) III. names = open("names.txt", "r") for line in names: print("line")	B	1	I	II	III	I & III both
380	6	How many errors are in the code below? It should open the file in read-only mode, read each line and print each line and then close the file. def print_contents(file) file_obj = open(file) for line in "file_obj": print(line_obj)	D	1	1	2	3	4
381	6	Select the correct output of the following code fp.seek(5, 1)	A	1	Move file pointer five characters ahead from the current position	Move file pointer five characters ahead from the beginning of a file	Move file pointer five characters behind from the current position	Move file pointer five characters behind ahead from the end of a file
382	6	Which method is used to read file line by line?	C	1	read(1)	readlines(1)	readline()	line()
383	6	Select the incorrect file access mode	C	1	r	ab+	rw+	wb+
384	6	Which method is used to sets the position of a file pointer?	D	1	ftell()	fseek()	tell()	seek()

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
385	6	Which of the following statements are true?	D	1	When you open a file for reading, if the file does not exist, an error occurs	When you open a file for writing, if the file does not exist, a new file is created	When you open a file for writing, if the file exists, the existing file is overwritten with the new file	All of the mentioned
386	6	To read the entire remaining contents of the file as a string from a file object infile, we use _____	B	1	infile.read(2)	infile.read()	infile.readline()	infile.readlines()
387	6	What will be the output of the following Python code? f = None for i in range (5): with open("data.txt", "w") as f: if i > 2: break print(f.closed)	A	1	True	False	None	Error
388	6	The readlines() method returns _____	B	1	str	a list of lines	a list of single characters	a list of integers
389	6	What does this code myfile=open("taxes.txt")?	A	1	opens the taxes.txt in default read mode	opens the taxes.txt in default write mode	opens the taxes.txt in default append mode	opens the taxes.txt in default read and write mode
390	6	File is created if does not exist. If the file exists, file is truncated(past data is lost). Both reading and writing operation can take place. What is the text file mode?	C	1	'r'	'w'	'w+'	a+
391	6	open("data.txt") The above statement will _____ file in _____ mode.	C	1	File object,write	Home,append plus	Open,Read	data.txt,append
392	6	readlines() method return _____	B	1	String	List	Dictionary	Tuple
393	6	Which of the following options can be used to read the first line of a text file data.txt?	C	1	f = open('data.txt'); f.read()	f = open('data.txt','r'); f.read(n)	myfile = open('data.txt'); f.readline()	f = open('data.txt'); f.readlines()
394	6	Let the file pointer is at the end of 3rd line in a text file named "data.txt". Which of the following option can be used to read all the remaining lines?	D	1	f.read()	f.read(all)	f.readline()	f.readlines()
395	6	Which of the following error is returned when we try to open a file in write mode which does not exist?	D	1	FileNotFoundError	FileFoundError	FileNotExistError	None of the above
396	6	The syntax of seek() is: file_object.seek(offset [, reference_point]) What is reference_point indicate?	A	1	reference_point indicates the starting position of the file object	reference_point indicates the ending position of the file object	reference_point indicates the current position of the file object	None of the above
397	6	What error is returned by the following statement if the file does not exist? f=open("A.txt")	B	1	NotFoundError	FileNotFoundError	FileNotFound	FoundError
398	6	Which statement will move file pointer 10 bytes backward from current position?	C	1	f.seek(-10, 0)	f.seek(10, 0)	f.seek(-10, 1)	f.seek(10, 1)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
399	6	Write the output of the First Print statement : f=open("data.txt",'w') f.write("Hello") f.write("Welcome to my Blog") f.close() f=open("data.txt",'r') d=f.read(5) print(d) # First Print Statement f.seek(10) d=f.read(3) print(d) # Second Print Statement f.seek(13) d=f.read(5) print(d) # Third Print Statement d=f.tell() print(d) # Fourth Print Statement	A	1	Hello	Hell	ello	Hel
400	6	Write the output of the second Print statement : f=open("data.txt",'w') f.write("Hello") f.write("Welcome to my Blog") f.close() f=open("data.txt",'r') d=f.read(5) print(d) # First Print Statement f.seek(10) d=f.read(3) print(d) # Second Print Statement f.seek(13) d=f.read(5) print(d) # Third Print Statement d=f.tell() print(d) # Fourth Print Statement	B	1	om	me	co	oc

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
401	6	Write the output of the third Print statement: f=open("data.txt",'w') f.write("Hello") f.write("Welcome to my Blog") f.close() f=open("data.txt",'r') d=f.read(5) print(d) # First Print Statement f.seek(10) d=f.read(3) print(d) # Second Print Statement f.seek(13) d=f.read(5) print(d) # Third Print Statement d=f.tell() print(d) # Fourth Print Statement	C	1	e to m	e to my	to my	to m
402	6	Write the output of the forth Print statement: f=open("data.txt",'w') f.write("Hello") f.write("Welcome to my Blog") f.close() f=open("data.txt",'r') d=f.read(5) print(d) # First Print Statement f.seek(10) d=f.read(3) print(d) # Second Print Statement f.seek(13) d=f.read(5) print(d) # Third Print Statement d=f.tell() print(d) # Fourth Print Statement	D	1	17	16	19	18
403	6	Which of the following file-modes does retains file data and append new data?	A	1	'a+'	'a'	'w+'	'r+'
404	6	File is created if does not exist. If the file exists, file is truncated(past data is lost). Both reading and writing operation can take place. What is the text file mode?	C	1	'r'	'w'	'w+'	'a+'
405	6	From following which statement reads some bytes from the file and returns it as a string?	B	1	readlines()	read()	readline()	readpara()
406	6	From following which statement reads a line at a time?	C	1	readlines()	read()	readline()	readpara()
407	6	From following which statement reads all the lines from the file and returns in the form of list?	A	1	readlines()	read()	readline()	readpara()
408	6	From following which statement write a string in file?	A	1	write()	writeline()	writelines()	writepara()

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
409	6	From following which statement writes a list in a file?	C	1	write()	writeline()	writelines()	writepara()
410	6	To read 4th line from text file, which of the following statement is true?	B	1	dt=f.read(4) ;print(dt[3])	dt = f.readlines();print(dt[3])	dt=f.readline(4);print(dt[3])	All of these
411	6	Write the output of the following code f = open("data.txt", "r") d = read() d1 = read(5) print(d) print(d1) #data file contains the following data Welcome to python program	C	1	Welcome to python program	Welco	error	Welcome to python program
412	6	Consider following lines for the file friends.txt and predict the output: Friends are crazy, Friends are naughty ! Friends are honest, Friends are best ! Friends are like keygen, friends are like license key ! We are nothing without friends, Life is not possible without friends ! f = open("friends.txt") l = f.readline() l2 = f.readline(18) ch3=f.read(10) print(l2) print(ch3) print(f.readline()) f.close()	C	1	Friends are naughty ! Life is not possible without friends !	Friends are crazy, Friends are naughty !	Friends are honest , Friends are best !	Friends are like keygen, friends are like license key !
413	6	What happens if no arguments are passed to the seek function?	D	1	file position is set to the start of file	file position is set to the end of file	file position remains unchanged	error
414	6	What is the difference between r+ and w+ modes?	A	1	In r+ mode, the pointer is initially placed at the beginning of the file and the pointer is at the end for w+	In w+ mode, the pointer is initially placed at the beginning of the file and the pointer is at the end for r+	Depends on the operating system	No difference

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
415	6	Use the following file to predict the output of the following code: test.txt content: aaa bbb ccc ddd eee fff ggg Code: f=open("test.txt","r") print(f.readline(3))	A	1	aaa	ccc	bbb	Syntax Error
416	6	Suppose content of 'Myfile.txt' is Humpty Dumpty sat on a wall Humpty Dumpty had a great fall All the king's horses and all the king's men Couldn't put Humpty together again What will be the output of the following code? myfile = open("Myfile.txt") record = myfile.read().split() print(len(record)) myfile.close()	C	1	24	25	26	27
417	6	To read twelve characters from a file object fin we use _____	A	1	fin.read(12)	fin.read()	fin.readline()	read(12)
418	6	Suppose content of 'Myfile.txt' is Culture is the widening of the mind and of the spirit. What will be the output of the following code? myfile = open("Myfile.txt") x = myfile.read() y = x.count('the') print(y) myfile.close()	B	1	2	3	4	5
419	6	Write a function cust_data() to ask user to enter their names and age to store data in customer.txt file.		4				
420	6	Write a python program to create and read the city.txt file in one go and print the contents on the output screen.		4				
421	6	Write a function count_lines() to count and display the total number of lines from the file. Consider the following lines for the file – friends.txt. Friends are crazy, Friends are naughty ! Friends are honest, Friends are best ! Friends are like keygen, friends are like license key ! We are nothing without friends, Life is not possible without friends !		4				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
422	6	Write a function display_oddLines() to display odd number lines from the text file. Consider the following lines for the file – friends.txt. Friends are crazy, Friends are naughty ! Friends are honest, Friends are best ! Friends are like keygen, friends are like license key ! We are nothing without friends, Life is not possible without friends !		4				
423	6	Write a Python program to read a text file and do following: 1. Print no. of words 2. Print no. statements		4				
424	6	Write a Python program to count words, characters and spaces from text file.		7				
425	6	Write a python program that reads a text file and changes the file by capitalizing each character of file.		3				
426	6	Write a Python program to read a file line by line store it into a variable		4				
427	6	Write a Python program to copy the contents of a file to another file.		7				
428	6	Write a python program to find the longest words in a read file.		7				
429	6	Write a python program to read line by line from a given files file1 & file2 and write into file3.		4				
430	6	Write a python program to read whole text file line by line.		3				
431	6	Write python program to count the number of lines in a file.		7				
432	6	Write a python program to search for a string in text files.		7				
433	6	Write a Python program to remove newline characters from a file.		4				
434	6	Write a Python program to assess if a file is closed or not.		3				
435	7	To use a module in another module, you must import it using an _____ statement	A	1	import	include	1 AND 2	NONE OF THESE
436	7	Which statement is correct to import all modules from the package	B	1	from package import all	from package import *	from package include all	from package include *
437	7	A Python module is a file with the _____ file extension that contains valid Python code.	D	1	.pym	.pymodule	.module	.py
438	7	Which of the following returns a string that represents the present working directory?	A	1	os.getcwd()	os.cwd()	os.getpwd()	os.pwd()
439	7	Which of the following can be used to create a directory?	A	1	os.mkdir()	os.creat_dir()	os.create_dir()	os.make_dir()
440	7	Which of these definitions correctly describes a module?	B	1	Denoted by triple quotes for providing the specification of certain program elements	Design and implementation of specific functionality to be incorporated into a program	Defines the specification of how it is to be used	Any program that reuses code
441	7	Which of the following is not an advantage of using modules?	C	1	Provides a means of reuse of program code	Provides a means of dividing up tasks	Provides a means of reducing the size of the program	Provides a means of testing individual parts of the program
442	7	Which of the following is false about “from-import” form of import?	B	1	The syntax is: from modulename import identifier	This form of import prevents name clash	The namespace of imported module becomes part of importing module	The identifiers in module are accessed directly as: identifier
443	7	Which of the following can be used to remove a directory?	A	1	os.rmdir()	os.rem_dir()	os.create_dir()	os.make_dir()

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
444	7	_____is used to get the list of all files and directories in the specified directory.	C	1	os.rmdir()	os.chdir()	os.listdir()	os.make_dir()
445	7	_____method in Python used to change the current working directory to specified path	B	1	os.rmdir()	os.chdir()	os.listdir()	os.make_dir()
446	7	How do you delete a file?	C	1	del(fp)	fp.delete()	os.remove('file')	os.delete('file')
447	7	if mymod.py file has this code A=100 def add(a,b): print("The Sum:",a+b) def product(a,b): print("The Product:",a*b) and if we import that module as follow then what will be output? from mymod import * print(X) add(10,20) product(10,20)	C	1	888 Sum: 30 The	888 The Sum: 30 The Product: 200	error	none
448	7	if mymod.py file has this code A=100 def add(a,b): print("The Sum:",a+b) def product(a,b): print("The Product:",a*b) and if we import that module as follow then what will be output? from mymod import * print(A) add(10,20) product(10,20)	B	1	100 30 The Sum:	100 The Sum: 30 The Product: 200	error	none
449	7	if mymod.py file has this code A=100 def add(a,b): print("The Sum:",a+b) def product(a,b): print("The Product:",a*b) and if we import that module as follow then what will be output? from mymod import * print(A) add(10,20) division(20,10)	A	1	100 30 error The Sum:	100 The Sum: 30 The Product: 200	error	none
450	7	os.remove("C:\....file name not in directory") what will be output?	C	1	list the files	give name of removed file	it will give file not found error because that file is not available.	none of these

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
451	7	print(os.listdir("C:\.... file name")) what will be output?	D	1	give error	give name of removed file	change directory	get the list of all files and directories in the specified directory.
452	7	A .py file containing constants/variables, classes, functions etc. related to a particular task and can be used in other programs is called	A	1	module	library	classes	documentation
453	7	Which command(s) modifies the current namespace with the imported object name?	D	1	import <module>	from <module> import <object>	from <module> import *	Both B and C
454	7	<pre>#mod1 def change(a): b=[x*2 for x in a] print(b) #mod2 def change(a): b=[x*x for x in a] print(b) from mod1 import change from mod2 import change #main s=[1,2,3] change(s)</pre>	D	1	[2,4,6]	[1,4,9]	[2,4,6] [1,4,9]	There is a name clash
455	7	Write a python program to make a module which contain all the basic functions related to string and import that module in another file and use that fuctions with string given by user.		5				
456	8	Which is not a feature of OOP in general definitions?	D	1	Efficient Code	Code reusability	Modularity	Duplicate data
457	8	Which among the following, for a pure OOP language, is true?	C	1	The language should follow at least 1 feature of OOP	The language must follow only 3 features of OOP	The language must follow all the rules of OOP	The language should follow 3 or more features of OOP
458	8	What is encapsulation in OOP?	A	1	It is a way of combining various data members and member functions that operate on those data members into a single unit	It is a way of combining various data members and member functions into a single unit which can operate on any data	It is a way of combining various data members into a single unit	It is a way of combining various member functions into a single unit
459	8	What is an abstraction in object-oriented programming?	A	1	Hiding the implementation and showing only the features	Hiding the important data	Hiding the implementation	Showing the important data
460	8	The copy constructors can be used to _____	C	1	Copy an object so that it can be passed to another primitive type variable	Copy an object for type casting	Copy an object so that it can be passed to a function	Copy an object so that it can be passed to a class
461	8	What happens when an object is passed by reference?	C	1	Destructor is called at end of function	Destructor is called when called explicitly	Destructor is not called	Destructor is called when function is out of scope

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
462	8	Encapsulation and abstraction differ as _____	B	1	Hiding and hiding respectively	Binding and Hiding respectively	Hiding and Binding respectively	Can be used any way
463	8	Which among the following is not a necessary condition for constructors?	C	1	Its name must be same as that of class	It must not have any return type	It must contain a definition body	It can contains arguments
464	8	What is the implicit return type of constructor?	B	1	No return type	A class object in which it is defined	void	None
465	8	A single program of OOPS contains _____ classes?	D	1	Only 1	Only 999	Only 100	Any number
466	8	Which two features of object-oriented programming are the same?	D	1	Abstraction and Polymorphism	Inheritance and Encapsulation	Encapsulation and Polymorphism	Encapsulation and Abstraction
467	8	Which of the following variable violates the definition of encapsulation?	C	1	Array variables	Local variables	Global variables	Public variables
468	8	How can the concept of encapsulation be achieved in the program?	A	1	By using the Access specifiers	By using the concept of Abstraction	By using only private members	By using the concept of Inheritance
469	8	_____ represents an entity in the real world with its identity and behaviour.	B	1	A method	An object	A class	An operator
470	8	_____ is used to create an object.	B	1	class	constructor	User-defined functions	In-built functions
471	8	What will be the output of the following Python code? class test: def __init__(self,a="Hello World"): self.a=a def display(self): print(self.a) obj=test() obj.display()	C	1	The program has an error because constructor can't have default arguments	Nothing is displayed	"Hello World" is displayed	The program has an error display function doesn't have parameters
472	8	What will be the output of the following Python code? class test: def __init__(self,a): self.a=a def display(self): print(self.a) obj=test() obj.display()	C	1	Runs normally, doesn't display anything	Displays 0, which is the automatic default value	Error as one argument is required while creating the object	Error as display function requires additional argument
473	8	What is Instantiation in terms of OOP terminology?	D	1	Deleting an instance of class	Modifying an instance of class	Copying an instance of class	Creating an instance of class
474	8	Which of the following Python code creates an empty class?	B	1	class A: return	class A: pass	class A:	It is not possible to create an empty class
475	8	What are the methods which begin and end with two underscore characters called?	A	1	Special methods	In-built methods	User-defined methods	Additional methods
476	8	In Python, a function within a class definition is called a:	B	1	a class function	a method	an operation	a factory
477	8	What does built-in function help do in context of classes?	C	1	Determines the object name of any value	Determines the class identifiers of any value	Determines class description of any built-in type	Determines class description of any user-defined built-in type

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
478	8	What does built-in function type do in context of classes?	B	1	Determines the object name of any value	Determines the class name of any value	Determines class description of any value	Determines the file name of any value
479	8	Methods of a class that provide access to private members of the class are called as _____ and _____	A	1	getters/setters	__repr__/_str__	user-defined functions/in-built functions	__init__/_del__
480	8	Which of the following is False with respect Python code? class Student: def __init__(self,id,age): self.id=id self.age=age std=Student(1,20)	C	1	"std" is the reference variable for object Student(1,20)	id and age are called the parameters	Every class must have a constructor	None of the above
481	8	What will be the output of below Python code? class Student: def __init__(self,name,id): self.name=name self.id=id print(self.id) std=Student("Simon",1) std.id=2 print(std.id)	B	1	1 1	1 2	2 1	2 2
482	8	What will be the output of below Python code? class A(): def __init__(self,count=100): self.count=count obj1=A() obj2=A(102) print(obj1.count) print(obj2.count)	B	1	100 100	100 102	102 102	Error
483	8	Which of the following is correct? class A: def __init__(self,name): self.name=name a1=A("john") a2=A("john")	B	1	id(a1) and id(a2) will have same value	id(a1) and id(a2) will have different values	Two objects with same value of attribute cannot be created	None
484	8	Which of the following is correct? class A: def __init__(self): self.count=5 self.count=count+1 a=A() print(a.count)	D	1	5	6	0	Error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
485	8	What will be the output of below Python code? class A: def __init__(self,num): num=3 self.num=num def change(self): self.num=7 a=A(5) print(a.num) a.change() print(a.num)	D	1	5 5	5 7	3 3	3 7
486	8	What will be the output of the following code? class Point: def __init__(self): self.x = 0 self.y = 0 p = Point() q = Point() print("Nothing seems to have happened with the points")	B	1	p q Nothing seems to have happened with the points	Nothing seems to have happened with the points	<__main__.Point object> <__main__.Point object> Nothing seems to have happened with the points	(0,0) (0,0) Nothing seems to have happened with the points
487	8	What will be the output of the following snippet? class Point: def __init__(self): self.x = 0 self.y = 0 p = Point() q = Point() print(p) print(q) print(p is q)	C	1	<__main__.Point object> <__main__.Point object> True	FALSE	<__main__.Point object> <__main__.Point object> False	(0,0) (0,0) False

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
488	8	<p>What will the output of the following snippet?</p> <pre>import math class Point: def __init__(self, initX, initY): self.x = initX self.y = initY def getX(self): return self.x def getY(self): return self.y def distanceFromOrigin(self): return ((self.x ** 2) + (self.y ** 2)) ** 0.5 def distance(self, point2): xdiff = point2.getX()-self.getX() ydiff = point2.getY()-self.getY() dist = math.sqrt(xdiff**2 + ydiff**2) return dist p = Point(4,3)</pre>	A	1	5	5	4,3	Error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
489	8	<p>What will the output of the following snippet?</p> <pre>class Point: def __init__(self, initX, initY): self.x = initX self.y = initY def getX(self): return self.x def getY(self): return self.y def distanceFromOrigin(self): return ((self.x ** 2) + (self.y ** 2)) ** 0.5 p = Point(7,6) print(p)</pre>	C	1	(7,6)	7,6	<__main__.Point object>	Error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
490	8	<p>What will the output of the following snippet?</p> <pre>class Point: def __init__(self, initX, initY): self.x = initX self.y = initY def getX(self): return self.x def getY(self): return self.y def distanceFromOrigin(self): return ((self.x ** 2) + (self.y ** 2)) ** 0.5 def __str__(self): return "x = {}, y = {}".format(self.x, self.y) p = Point(7,6) print(p)</pre>	D	1	(7,6)	7,6	<__main__.Point object>	x = 7, y = 6

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
491	8	<p>What will the output of the following snippet?</p> <pre> class Point: def __init__(self, initX, initY): self.x = initX self.y = initY def getX(self): return self.x def getY(self): return self.y def distanceFromOrigin(self): return ((self.x ** 2) + (self.y ** 2)) ** 0.5 def __str__(self): return "x = {}, y = {}".format(self.x, self.y) def halfway(self, target): mx = (self.x + target.x)/2 my = (self.y + target.y)/2 return Point(mx, my) p = Point(3,4) q = Point(5,12) mid = p.halfway(q) print(mid) print(mid.getX()) print(mid.getY()) </pre>	A	1	<p>x = 4.0, y = 8.0</p> <p>4.0</p> <p>8.0</p>	<p>4,8</p> <p>4</p> <p>8</p>	<p>x = 4, y = 8</p> <p>4</p> <p>8</p>	<p>4.0. 8.0</p> <p>4.0</p> <p>8.0</p>
492	8	<p>Will this program will print last statement?</p> <pre> try: items = ['a', 'b'] third = items[1] print("This won't print") except Exception: print("got an error") print("continuing") </pre>	C	1	<p>This won't print</p> <p>got an error</p> <p>continuing</p>	<p>got an error</p> <p>continuing</p>	<p>This won't print</p> <p>continuing</p>	<p>continuing</p>

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
493	8	Will this program will print last statement? try: items = ['a', 'b'] third = items[2] print("This won't print") except Exception: print("got an error") print("continuing")	B	1	This won't print got an error continuing	got an error continuing	This won't print continuing	continuing
494	8	What will be the output of this following snippet? try: items = ['a', 'b'] third = items[2] print("This won't print") except Exception as e: print("got an error") print(e) print("continuing")	C	1	This won't print got an error continuing	got an error continuing	got an error list index out of range continuing	continuing
495	8	Which type of error can be noticed and handled using try/except?	B	1	syntax	runtime	semantic	None
496	8	Which of the following is not a type of Error?	B	1	syntax	insertion	runtime	recursion
497	8	Which of the following is not a type of Error?	D	1	IO	EOF	Overflow	Underflow
498	8	_____ is the universal handler class for exceptions.	C	1	Maths	Object	Exceptions	Errors
499	8	How many except statements can a try-except block have?	D	1	zero	one	more than one	more than zero
500	8	When will the else part of try-except-else be executed?	C	1	always	when an exception occurs	when no exception occurs	when an exception occurs in to except block
501	8	When is the finally block executed?	D	1	when there is no exception	when there is an exception	only if some condition that has been specified is satisfied	always
502	8	What will be the output of the following Python code? def foo(): try: return 1 finally: return 2 k = foo() print(k)	B	1	1	2	3	Error, there is more than one return statement in a single try-finally block

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
503	8	What will be the output of the following Python code? def foo(): try: print(1) finally: print(2) k = foo() print(k)	A	1	1 2	2 2	1	2
504	8	What will be the output of the following Python code? try: if '1' != 1: raise "someError" else: print("someError has not occurred") except "someError": print ("someError has occurred")	C	1	someError has occurred	someError has not occurred	invalid code	someError
505	8	What will be the output of the following Python code? def a(): try: f(x, 4) finally: print('after f') print('after f?') a()	D	1	No output	after f?	after f after f?	after f error
506	8	What will be the output of the following Python code? def getMonth(m): if m<1 or m>12: raise ValueError("Invalid") print(m) getMonth(6)	C	1	ValueError	Invalid	6	ValueError("Invalid")
507	8	Which of the following statements is true?	A	1	The standard exceptions are automatically imported into Python programs	All raised standard exceptions must be handled in Python	When there is a deviation from the rules of a programming language, a semantic error is thrown	If any exception is thrown in try block, else block is executed
508	8	Which of the following blocks will be executed whether an exception is thrown or not?	C	1	except	else	finally	assert
509	8	Create a class called NumberSet that accepts 2 integers as input, and defines two instance variables: num1 and num2, which hold each of the input integers. Then, create an instance of NumberSet where its num1 is 6 and its num2 is 10. Save this instance to a variable t		4				

L.J Institute of Engineering and Technology, Ahmedabad.
FCSP-1 Question Bank (SEM-III)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
510	8	Create a class called Animal that accepts two numbers as inputs and assigns them respectively to two instance variables: arms and legs. Create an instance method called limbs that, when called, returns the total number of limbs the animal has. To the variable name spider, assign an instance of Animal that has 4 arms and 4 legs. Call the limbs method on the spider instance and save the result to the variable name spidlimbs		7				
511	8	Write a Python program to create a Vehicle class with max_speed and mileage instance attributes.		4				
512	8	Write a simple Python class named Student and display its type. Also, display the __dict__ attribute keys and the value of the __module__ attribute of the Student class.		3				
513	8	Write a Python class named Student with two attributes student_name, marks. Modify the attribute values of the said class and print the original and modified values of the said attributes.		4				
514	8	Write a Python class named Student with two attributes student_id, student_name. Add a new attribute student_class. Create a function to display the entire attribute and their values in Student class.		4				
515	8	Write a Python class to implement pow(x, n)		7				
516	8	Write a Python class to reverse a string word by word.		4				
517	8	Write a Python class named Rectangle constructed by a length and width and a method which will compute the area of a rectangle.		4				
518	8	Write a Python class named Circle constructed by a radius and two methods which will compute the area and the perimeter of a circle.		4				
519	8	Write a python program to demonstrate the use of try-except-else in Exception handling		4				
520	8	Write a python program to demonstrate the use of raise in Exception handling		3				
521	8	Write a python program to demonstrate the use of custom exceptions in Exception handling.		4				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
522	9	<p>What will be the output of the following Python code?</p> <pre> class Demo: def __new__(self): self.__init__(self) print("Demo's __new__() invoked") def __init__(self): print("Demo's __init__() invoked") class Derived_Demo(Demo): def __new__(self): print("Derived_Demo's __new__() invoked") def __init__(self): print("Derived_Demo's __init__() invoked") def main(): obj1 = Derived_Demo() obj2 = Demo() main() </pre>	B	1	<p>Derived_Demo's __new__() invoked Demo's __init__() invoked Demo's __new__() invoked</p>	<p>Derived_Demo's __new__() invoked Demo's __init__() invoked Demo's __new__() invoked</p>	<p>Derived_Demo's __new__() invoked Demo's __new__() invoked</p>	<p>Derived_Demo's __init__() invoked</p>
523	9	<p>What will be the output of the following Python code?</p> <pre> class Test: def __init__(self): self.x = 0 class Derived_Test(Test): def __init__(self): self.y = 1 def main(): b = Derived_Test() print(b.x,b.y) main() </pre>	C	1	0 1	1 0	Error because class B inherits A but variable x isn't inherited	Error because when object is created, argument must be passed like Derived_Test(1)
524	9	<p>What will be the output of the following Python code?</p> <pre> class A(): def disp(self): print("A disp()") class B(A): pass obj = B() obj.disp() </pre>	D	1	Invalid syntax for inheritance	Error because when object is created, argument must be passed	Nothing is printed	A disp()
525	9	Suppose B is a subclass of A, to invoke the __init__ method in A from B, what is the line of code you should write?	A	1	A.__init__(self)	B.__init__(self)	A.__init__(B)	B.__init__(A)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
526	9	What will be the output of the following Python code? class Test: def __init__(self): self.x = 0 class Derived_Test(Test): def __init__(self): Test.__init__(self) self.y = 1 def main(): b = Derived_Test() print(b.x,b.y) main()	C	1	Error because class B inherits A but variable x isn't inherited	0 0	0 1	Error, the syntax of the invoking method is wrong
527	9	What will be the output of the following Python code? class A: def one(self): return self.two() def two(self): return 'A' class B(A): def two(self): return 'B' obj1=A() obj2=B() print(obj1.two(),obj2.two())	B	1	A A	A B	B B	B A
528	9	What type of inheritance is illustrated in the following Python code? class A(): pass class B(): pass class C(A,B): pass	B	1	Multi-level inheritance	Multiple inheritance	Hierarchical inheritance	Single-level inheritance
529	9	What type of inheritance is illustrated in the following Python code? class A(): pass class B(A): pass class C(B): pass	A	1	Multi-level inheritance	Multiple inheritance	Hierarchical inheritance	Single-level inheritance
530	9	In which of the following does the CricketFan class correctly inherit from the PartyAnimal class?	B	1	from party import PartyAnimal	class CricketFan(PartyAnimal)	an = PartyAnimal()	CricketFan = PartyAnimal()

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
531	9	What does single-level inheritance mean?	C	1	A subclass derives from a class which in turn derives from another class	A single superclass inherits from multiple subclasses	A single subclass derives from a single superclass	Multiple base classes inherit a single derived class
532	9	Inheritance follows which approach to problem solving?	B	1	Bottom -up	Top-down	bottom-down	top-up
533	9	What will be the output of the following Python code? class A: def __init__(self,x): self.x = x def count(self,x): self.x = self.x+1 class B(A): def __init__(self, y=0): A.__init__(self, 3) self.y = y def count(self): self.y += 1 def main(): obj = B() obj.count() print(obj.x, obj.y) main()	B	1	3 0	3 1	0 1	An exception is thrown
534	9	The child's __init__() function overrides the inheritance of the parent's __init__() function.	A	1	TRUE	FALSE	CAN BE TRUE OR FALSE	CAN NOT SAY
535	9	What will be the output of the following Python code? class A: def __init__(self): self.__x = 1 class B(A): def display(self): print(self.__x) def main(): obj = B() obj.display() main()	D	1	1	0	Error, invalid syntax for object declaration	Error, private class member can't be accessed in a subclass

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
536	9	What will be the output of the following Python code? class A: def __init__(self): self._x = 5 class B(A): def display(self): print(self._x) def main(): obj = B() obj.display()	C	1	Error, invalid syntax for object declaration	Nothing is printed	5	Error, private class member can't be accessed in a subclass
537	9	In OOP languages, object composition is used for object that have a _____ relationship to each other.	C	1	is-a	was-a	has-a	in-a
538	9	What will be the output of the following Python code? class A: def test1(self): print(" test of A called ") class B(A): def test(self): print(" test of B called ") class C(A): def test(self): print(" test of C called ") class D(B,C): def test2(self): print(" test of D called ") obj=D() obj.test()	C	1	test of B called test of C called	test of C called test of B called	test of B called	Error, both the classes from which D derives has same method test()
539	9	The concept of inheritance is used to implement which relationship?	A	1	is-a	was-a	has-a	in-a
540	9	What does the following code output? class People(): def __init__(self, name): self.name = name def namePrint(self): print(self.name) person1 = People("Sally") person2 = People("Louise") person1.namePrint()	A	1	Sally	Louise	Sally Louise	Person1
541	9	You cannot create object of which type of class	C	1	base	derived	abstract	intermediate

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
542	9	Which of the following best describes polymorphism?	D	1	Ability of a class to derive members of another class as a part of its own definition	Means of bundling instance variables and methods in order to restrict access to certain class members	Focuses on variables and passing of variables to functions	Allows for objects of different types and behaviour to be treated as the same general type
543	9	What will be the output of the following Python code? class Demo: def __init__(self): self.x = 1 def change(self): self.x = 10 class Demo_derived(Demo): def change(self): self.x=self.x+1 return self.x def main(): obj = Demo_derived() print(obj.change()) main()	B	1	11	2	1	10
544	9	What will be the output of the following Python code? class Demo: def check(self): return " Demo's check " def display(self): print(self.check()) class Demo_Derived(Demo): def check(self): return " Derived's check " Demo().display() Demo_Derived().display()	A	1	Demo's check Derived's check	Demo's check Demo's check	Derived's check Demo's check	Syntax error

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
545	9	What will be the output of the following Python code? <pre> class A: def __init__(self, x, y): self.x = x self.y = y def __str__(self): return 1 def __eq__(self, other): return self.x * self.y == other.x * other.y obj1 = A(5, 2) obj2 = A(2, 5) print(obj1 == obj2) </pre>	C	1	False	1	TRUE	An exception is thrown
546	9	What will be the output of the following Python code? <pre> class A: def one(self): return self.two() def two(self): return 'A' class B(A): def two(self): return 'B' obj2=B() print(obj2.two()) </pre>	D	1	A	An exception is thrown	A B	B
547	9	What will be printed? <pre> import numpy as np a = np.array([1,2,3,5,8]) b = np.array([0,3,4,2,1]) c = a + b + b c = c*a print (c[2]) </pre>	D	1	7	12	10	33
548	9	What will be printed? <pre> import numpy as np a = np.array([1,2,3,5,8]) b = np.array([0,3,4,2,1]) c = a + b c = c*a print (c[2]) </pre>	D	1	7	12	10	21

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
549	9	What will be output for the following code? import numpy as np ary = np.array([1,2,3,5,8]) ary = ary + 1 print (ary[1])	D	1	0	1	2	3
550	9	What will be output for the following code? import numpy as np a = np.array([[1,2,3],[0,1,4]]) print (a.size)	C	1	1	5	6	4
551	9	What will be output for the following code? import numpy as np a = np.array([1,2,3,5,8]) print (a.ndim)	B	1	0	1	2	3
552	9	What will be output for the following code? import numpy as np a = np.array([[1,2,3],[0,1,4]]) b = np.zeros((2,3)) c = np.ones((2,3)) d = a + b + c print (d[1,2])	A	1	5	7	3	4
553	9	NumPY stands for?	C	1	Numbering Python	Number In Python	Numerical Python	None Of the above
554	9	What will be output for the following code? import numpy as np a=np.array([1,2,3,4,5,6]) print(a)	A	1	[1 2 3 4 5 6]	array([1, 2, 3, 4, 5])	(1 2 3 4 5 6)	(1,2,3,4,5,6)
555	9	What will be output for the following code? import numpy as np arr = np.array(42) print(arr)	A	1	42	[42]	[[42]]	int
556	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4]) print(arr[2])	C	1	1	2	3	4
557	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, -5, 4]) print(arr[-3])	A	1	2	-1	-5	ERROR
558	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, -5, 4]) print(arr[-5])	D	1	2	-1	-5	ERROR

L.J Institute of Engineering and Technology, Ahmedabad.
FCSP-1 Question Bank (SEM-III)

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
559	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4]) print(arr[2] + arr[3])	C	1	5	3	7	[(3,4)]
560	9	What will be output for the following code? import numpy as np arr = np.array([[1,2,3,4,5], [6,7,8,9,10]]) print(arr[0, 1])	B	1	6	2	4	10
561	9	What will be output for the following code? import numpy as np arr = np.array([[1,2,3,4,5], [6,7,8,9,10]]) print(arr[1, -3])	D	1	4	2	3	8
562	9	What will be output for the following code? import numpy as np arr = np.array([[[1, 2, 3], [4, 5, 6]], [[7, 8, 9], [10, 11, 12]]]) print(arr[0, 1, 2])	C	1	12	3	6	9
563	9	What will be output for the following code? import numpy as np arr = np.array([[[1, 2, 3], [4, 5, 6]], [[7, 8, 9], [10, 11, 12]]]) print(arr[1, 1, 2])	C	1	6	3	12	9
564	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7]) print(arr[1:5])	B	1	[1 2 3 4]	[2 3 4 5]	[1 2 3 4 5]	[1 5]
565	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7]) print(arr[1:-3])	A	1	[2 3 4]	[1 2 3]	[5 6 7]	[3 2 1]
566	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7]) print(arr[4:])	A	1	[5 6 7]	[1 2 3 4]	[1 2 3 4 5]	[1 5]
567	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7]) print(arr[:4])	B	1	[4 5 6 7]	[1 2 3 4]	[1 2 3 4 5]	[1 5]
568	9	What will be output for the following code? import numpy as np arr = np.array([[[1, 2, 3], [4, 5, 6]], [[7, 8, 9], [10, 11, 12]]]) print(arr[1,1,0:3])	A	1	[10 11 12]	[4 5 6]	[[10 11 12]]	[[

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
569	9	What will be output for the following code? import numpy as np arr = np.array([[[1, 2, 3], [4, 5, 6]], [[7, 8, 9], [10, 11, 12]]]) print(arr[1,0:3])	A	1	[[7 8 9] [10 11 12]]	[10 11 12]	[[4 5 6] 9] [10 11 12]]	[7 8 9] [10 11 12]
570	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4], [5, 6, 7, 8]) print(arr.shape)	C	1	(2 4)	[2 4]	(2, 4)	2D
571	9	What will be output for the following code? import numpy as np arr = np.array([[[1, 2, 3, 4], [5, 6, 7, 8]]]) print(arr.shape)	B	1	(2,4)	(1, 2, 4)	3D	(0,2,4)
572	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]) newarr = arr.reshape(4, 3) print(newarr)	A	1	[[1 2 3] [4 5 6] [7 8 9] [10 11 12]]	[1 2 3] [4 5 6] [7 8 9] [10 11 12]]	[[[1 2 3] [4 5 6] [7 8 9] [10 11 12]]]	ERROR
573	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]) newarr = arr.reshape(2, 3, 2) print(newarr)	A	1	[[[1 2] [3 4] [5 6]] [[7 8] [9 10] [11 12]]]	[[1 2 3] [4 5 6] [7 8 9] [10 11 12]]	[[1 2] [3 4] [5 6]] [[7 8] [9 10] [11 12]]	[1 2] [3 4] [5 6] [7 8] [9 10] [11 12]
574	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7, 8]) newarr = arr.reshape(2, 2, -1) print(newarr)	A	1	[[[1 2] [3 4]] [[5 6] [7 8]]]	[[[1 2 3 4]] [[5 6 7 8]]]	[[1 2 3 4 5 6 7 8]]	[[[1 2 3 4] [5 6 7 8]]]
575	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3], [4, 5, 6]) newarr = arr.reshape(-1) print(newarr)	A	1	[1 2 3 4 5 6]	6	[4,5,6]	[3,6]
576	9	What will be output for the following code? import numpy as np arr1 = np.array([1, 2, 3]) arr2 = np.array([4, 5, 6]) arr = np.concatenate((arr1, arr2)) print(arr)	A	1	[1 2 3 4 5 6]	[5,7,9]	[4,10,18]	[6,15]

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
577	9	What will be output for the following code? import numpy as np arr1 = np.array([[1, 2], [3, 4]]) arr2 = np.array([[5, 6], [7, 8]]) arr = np.concatenate((arr1, arr2), axis=1) print(arr)	A	1	[[1 2 5 6] [3 4 7 8]]	[[1 2] [3 4] [5 6] [7 8]]	[[[1 2] [3 4]] [[5 6] [7 8]]]	ERROR
578	9	What will be output for the following code? import numpy as np arr1 = np.array([[1, 2], [3, 4]]) arr2 = np.array([[5, 6], [7, 8]]) arr = np.concatenate((arr1, arr2), axis=0) print(arr)	B	1	[[1 2 5 6] [3 4 7 8]]	[[1 2] [3 4] [5 6] [7 8]]	[[[1 2] [3 4]] [[5 6] [7 8]]]	ERROR
579	9	What will be output for the following code? import numpy as np arr1 = np.array([[[1, 2], [3, 4]]]) arr2 = np.array([[[5, 6], [7, 8]]]) arr = np.concatenate((arr1, arr2), axis=0) print(arr)	B	1	[[1 2] [3 4] [5 6] [7 8]]	[[[1 2] [3 4]] [[5 6] [7 8]]]	[[[1 2 5 6] [3 4 7 8]]]	[1 2 3 4 5 6 7 8]
580	9	What will be output for the following code? import numpy as np arr1 = np.array([[[1, 2], [3, 4]]]) arr2 = np.array([[[5, 6], [7, 8]]]) arr = np.concatenate((arr1, arr2), axis=1) print(arr)	A	1	[[[1 2] [3 4] [5 6] [7 8]]]	[[[1 2 5 6] [3 4 7 8]]]	[[[1 2] [3 4]] [[5 6] [7 8]]]	[[1 2] [3 4] [5 6] [7 8]]
581	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6]) newarr = np.array_split(arr, 3) print(newarr)	A	1	[array([1, 2]), array([3, 4]), array([5, 6])]	[[[1, 2]],[[3, 4]],[[5, 6]]]	(1,2) (3,4) (5,6)	[1,2] [3,4] [5,6]
582	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6]) newarr = np.array_split(arr, 4) print(newarr)	A	1	[array([1, 2]), array([3, 4]), array([5]), array([6])]	[[[1, 2]],[[3, 4]],[[5]],[[6]]]	[[[1, 2]],[[3, 4]],[[5, 6]]]	[array([1, 2]), array([3, 4]), array([5, 6])]
583	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]) newarr = np.array_split(arr, 3) print(newarr)	B	1	[array([1, 2]), array([3, 4]), array([5, 6]), array([7, 8]), array([9, 10]), array([11, 12])]	[array([1, 2], [3, 4]), array([5, 6], [7, 8]), array([9, 10], [11, 12])]	[array([1, 2], [3, 4], [5, 6], [7, 8], [9, 10], [11, 12])]	[[1 2] [3 4] [5 6] [7 8] [9 10] [11 12]]

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
584	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 6]) newarr = np.array_split(arr, 6) print(newarr)	A	1	[array([1]), array([2]), array([3]), array([4]), array([5]), array([6])]	[1 2 3 4 5 6]	[[1],[2],[3],[4],[5],[6]]	[[1 2 3 4 5 6]]
585	9	What will be output for the following code? import numpy as np arr = np.array([1, 2, 3, 4, 5, 4, 4]) x = np.where(arr == 4) print(x)	A	1	(array([3, 5, 6],))	(3,5,6)	[3,5,6]	[3]
586	9	What will be output for the following code? import numpy as np arr = np.array([[1, 2], [3, 4], [5, 4]]) x = np.where(arr == 4) print(x)	A	1	(array([1, 2]), array([1, 1]))	(array([3, 5, 6],))	[3,5,6]	(([1, 2]),([1, 1]))
587	9	import numpy as np arr = np.array([3, 2, 0, 1]) print(np.sort(arr))	A	1	[0 1 2 3]	[3 2 1 0]	0 1 2 3	3 2 1 0
588	9	What will be output for the following code? import numpy as np arr = np.array([[3, 2], [0, 1]]) print(np.sort(arr))	C	1	[[0,1],[2,3]]	[[0,1,2,3]]	[[2 3] [0 1]]	[0,1] [2,3]
589	9	What will be output for the following code? import numpy as np arr = np.array(['banana', 'cherry', 'apple']) print(np.sort(arr))	A	1	['apple' 'banana' 'cherry']	apple' 'banana' 'cherry'	['apple'. 'banana', 'cherry']	ERROR
590	9	What will be output for the following code? import numpy as np arr = np.array([True, False, True]) print(np.sort(arr))	A	1	[False True True]	[0 1 1]	[1 0 1]	ERROR
591	9	What will be output for the following code? import numpy as np arr = np.array([True, False, True,0,1]) print(np.sort(arr))	B	1	[0 1 False True True]	[0 0 1 1 1]	[False True True 0 1]	[False False True True True]
592	9	What will be output for the following code? import numpy as np arr = np.array(k) print(arr)	D	1	k	"k"	[k]	ERROR
593	9	Instance of which type of class can't be created?	A	1	Abstract class	Parent class	Anonymous class	Nested class
594	9	Program to demonstrate the use of inheritance		4				
595	9	Program to demonstrate the use of multiple inheritance		4				
596	9	Program to demonstrate the use of multilevel inheritance		4				
597	9	Program to demonstrate the use of multipath inheritance		4				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
598	9	Implement the following hierarchy . The Book function has name, n (number of authors), authors (list of authors), publisher, ISBN, and year as its data members and the derived class has course as its data member. The derived class method overrides (extends) the methods of the base class.		6				
599	9	Implement the following hierarchy . The Staff function has name and salary as its data members, the derived class Teaching has subject as its data member and the class NonTeaching has department as its data member. The derived class method overrides (extends) the methods of the base class.		6				
600	9	Create a class called Student, having name and email as its data members and _init_(self, name, email) and putdata(self) as bound methods. The _init_ function should assign the values passed as parameters to the requisite variables. The putdata function should display the data of the student. Create another class called PhDguide having name, email, and students as its data members. Here, the students variable is the list of students under the guide. The PhDguide class should have four bound methods: _init_, putdata, add, and remove. The _init_ method should initialize the variables, the putdata should show the data of the guide, include the list of students, the add method should add a student to the list of students of the guide and the remove function should remove the student (if the student exists in the list of students of that guide) from the list of students.		6				
601	9	Implement the following hierarchy . The Staff class has name and salary as its data members, the derived class Teaching has subject as its data member and the class NonTeaching has department as its data member. The derived class method overrides (extends) the methods of the base class.		6				
602	9	Program to demonstrate the issue of invoking __init__() in case of multiple inheritance		4				
603	9	Write program that has a class point. Define another class location which has two objects (Location and Destination) of class point. Also define function in Location that prints reflection of Destination on the x axis.		6				
604	9	Write program that has classes such as Student, Course and Department. Enroll a student in a course of particular department		5				
605	9	Write a program that overload the + operator so that it can add two object of class fraction		4				
606	9	Write a program that overload the * operator so that it can add two object of class fraction		4				
607	9	Write a program to find the distance between two points in cartesian coordinate system		4				
608	9	Write a program to find the slope between two points in cartesian coordinate system		4				


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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
609	9	Write program to compare two date object		5				
610	9	Create a class student with following member attributes: roll no, name, age and total marks. Create suitable methods for reading and printing member variables. Write a python program to overload '==' operator to print the details of students having same marks.		6				
611	9	Construct a class called Complex having real and ima as its data members. The class should have an __init__ for initializing the data members and putData for displaying the complex number.		4				
612	9	Create a class called fraction having numerator and denominator as its members. Overload the following operators for the class + - * /		5				
613	9	Write a program to create a class called Data having "value" as its data member. Overload the (>) and the (<) operator for the class. Instantiate the class and compare the objects using __lt__ and __gt__.		5				
614	9	The following illustration creates a class called data. If no argument is passed while instantiating the class a false is returned, otherwise a true is returned.		4				
615	9	Write a Python program to overload + operator		4				
616	9	Create a 4X2 integer array and Prints its attributes		2				
617	9	Create a 5X2 integer array from a range between 100 to 200 such that the difference between each element is 10		3				
618	9	Following is the provided numPy array. Return array of items by taking the third column from all rows sampleArray = numpy.array([[11 ,22, 33], [44, 55, 66], [77, 88, 99]])		2				
619	9	Return array of odd rows and even columns from below numpy array sampleArray = numpy.array([[3 ,6, 9, 12], [15 ,18, 21, 24], [27 ,30, 33, 36], [39 ,42, 45, 48], [51 ,54, 57, 60]])		3				
620	9	Sort following NumPy array Case 1: Sort array by the second row Case 2: Sort the array by the second column sampleArray = numpy.array([[34,43,73],[82,22,12],[53,94,66]])		2				
621	9	Print max from axis 0 and min from axis 1 from the following 2-D array. sampleArray = numpy.array([[34,43,73],[82,22,12],[53,94,66]])		3				
622	10	Matplotlib allows you to create:	B	1	Table	Charts	Maps	All are correct
623	10	Which of the following is not a visualization under matplotlib?	D	1	Scatter Plot	Histogram	Box Plot	Table Plot
624	10	Which python package is used for 2D Graphics?	A	1	matplotlib.pyplot	matplotlib.pip	matplotlib.numpy	matplotlib.plt
625	10	The most popular data visualization library in python is:	C	1	pip	matinfolib	matplotlib	matpiplib
626	10	The command to install matplotlib in python is:	B	1	install matplotlib pip	pip install matplotlib	pip matplotlib install	install matplotlib

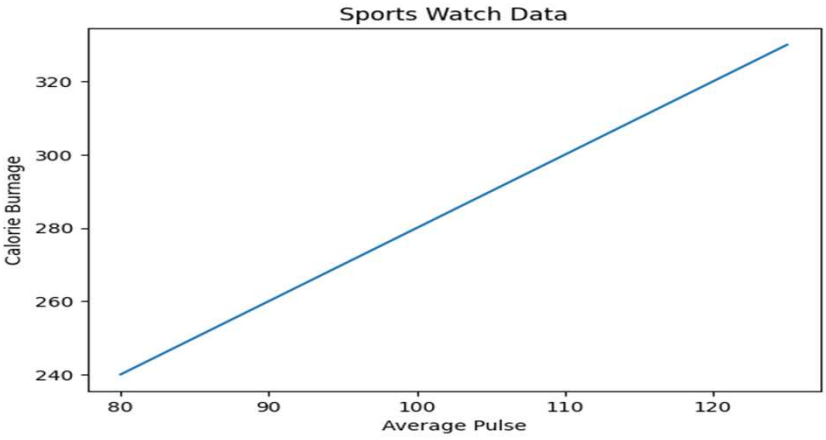
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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
627	10	In the following syntax given below: plt.plot(ypoints,'o:r') What does this 'o:r' stands for?	D	1	o (marker), : (color) and r (line)	o (color), : (line) and r (marker)	o (line), : (marker) and r (color)	o (marker), : (line) and r (color)
628	10	The following program gives which type of output? (Includes all important libraries) xpoints=np.array([1,2,6,8]) ypoints=np.array([3,8,1,10]) plt.plot(xpoints,ypoints) plt.show()	B	1	Creates a bar chart	Creates a line chart from (1,3) to (2,8) to (6,1) and to (8,10) points.	Creates a line for x axis in range from 1 to 8 (in range of 2 and 6) and y axis in range from 3 to 10 in range of 8 and 1.	Creates a histogram
629	10	For the following program code given below find whether there is an error or not? If yes then in which line? 1.import matplotlib.pyplot as plt 2.import numpy as np 3.ypoints = np.array([3,8,1,10,5,7]) 4.plt.plot(ypoints) 5.plt.show()	D	1	Line 2	Line 3	Line 4	No error and graph will be plotted
630	10	The following two program code generates what type of output? 1.import matplotlib.pyplot as plt import numpy as np ypoints=np.array([3,8,1,10,5,7]) plt.plot(ypoints) plt.show() 2.import matplotlib.pyplot as plt import numpy as np xpoints=np.array([0,1,2,3,4,5]) ypoints=np.array([3,8,1,10,5,7]) plt.plot(ypoints) plt.show()	D	1	First Program gives an value error as x axis points are not defined and Second Program will give an output.	Second Program will gives an value error as dimensions of x and y axis are not mapping and First Program will give output.	First Program and Second Program both will give output but it will be different.	First Program and Second Program both will give output but it will be same.
631	10	Consider the following two program code, what type of output they will generate? (Consider all important libraries are included) 1.xpoints=np.array([0,6]) ypoints=np.array([0,2]) plt.plot(xpoints,ypoints) plt.show() 2.xpoints=np.array([10,5]) ypoints=np.array([30,20]) plt.plot(xpoints,ypoints,'o') plt.show()	C	1	First Program gives an value error as x axis points are not defined and Second Program will give an output.	Second Program will gives an value error as dimensions of x and y axis are not mapping and First Program will give output.	First Program draws a line from position (0,0) to position (6,2) while second program draw two points one at position (10,30) and other point at position 2 (5,20) with marker o.	First Program and Second Program both will give output but it will be same.

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
632	10	In the given chart, points surrounded with circle is called 	C	1	Labels	Ticks	Markers	Series
633	10	In the given syntax what does this ms indicates? plt.plot(ypoints,marker='o',ms=10)	D	1	Markerborder	Markercolor	Markershape	Markersize
634	10	The following syntax will generate a graph of which color?plt.plot(ypoints,linestyle=':',color='o')	C	1	Orange	Red	Value Error	Syntax Error
635	10	Which plot color does Python takes by default?	B	1	Orange	Blue	Black	Red
636	10	Consider the code given below: plt.bar(cities, population,color=['r','g','b','m']) what will be the colour of last bar?	A	1	Magenta	Green	Blue	Black
637	10	Which type of error will be generated in this program and why? import matplotlib.pyplot as plt import numpy as np ypoints = np.array([3,8,1,10,5,7]) plt.plot(ypoints,linestyle='*') plt.show()	B	1	Syntax Error as '*' this type of linestyle does not exist	Value Error as '*' this type of linestyle does not exist	Type Error as linestyle is not proper with this type of array	Syntax Error as this is not a syntax of linestyle
638	10	Which linestyle does Python takes by default?	D	1	Dashpot	Dotted	Dashed	Solid
639	10	The following code will generate which type of linestyle? plt.plot(ypoints,linestyle=':')	A	1	Dotted	Dashed	Value Error	Syntax Error
640	10	Which of the following is a correct code to plot line chart with dotted linestyle?	C	1	plt.plot(x,y) plt.linestyle="dotted" plt.show()	plt.plot(x,y) plt.linestyle("dotted") plt.show()	plt.plot(x,y,linestyle="dotted") plt.show()	plt.plot(x,y) plt.linestyle={"dotted"} plt.show()

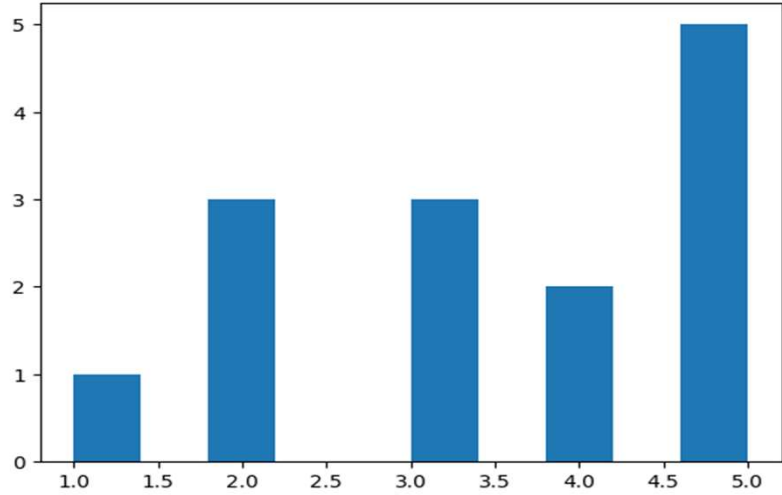
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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
641	10	For the given below figure (Common Question from group_id: 641 to 644) 1. identify what does "Average Pulse" indicates? 	B	1	Title	X-Label	Y-Label	Legend
642	10	Identify the correct syntax for "Average Pulse" printing? (Refer Figure from group_id 641)	A	1	plt.xlabel("Average Pulse")	plt.ylabel("Average Pulse")	plt.title("Average Pulse")	plt.xlabel(Average Pulse)
643	10	Identify the field "Sports Watch Data"? (Refer Figure from group_id 641)	D	1	Legend	X-Label	Y-Label	Title
644	10	Identify the correct program: (Refer Figure from group_id 641)	A	1	import numpy as np import matplotlib.pyplot as plt x=np.array([80,85,90,95,100,105,110,115,120,125]) y=np.array([240,250,260,270,280,290,300,310,320,330]) plt.title("Sports Watch Data") plt.xlabel("Average Pulse") plt.ylabel("Calorie Burnage") plt.plot(x,y) plt.show()	import numpy as np import matplotlib.pyplot as plt x=np.array([80,85,90,95,100,105,110,115,120,125]) y=np.array([240,250,260,270,280,290,300,310,320,330]) plt.title(Sports Watch Data) plt.xlabel(Average Pulse) plt.ylabel(Calorie Burnage) plt.plot(x,y) plt.show()	import numpy as np import matplotlib.pyplot as plt x=np.array([80,85,90,95,100,105,110,115,120,125]) y=np.array([240,250,260,270,280,290,300,310,320,330]) plt.title("Sports Watch Data") plt.xlabel("Average Pulse") plt.ylabel("Calorie Burnage") plt.plot(x,y) plt.show()	import numpy as np x=np.array([80,85,90,95,100,105,110,115,120,125]) y=np.array([240,250,260,270,280,290,300,310,320,330]) plt.title("Sports Watch Data") plt.xlabel("Average Pulse") plt.ylabel("Calorie Burnage") plt.plot(x,y) plt.show()
645	10	Which of the following is correct syntax for displaying title on chart?	D	1	pit.title="My Title"	pit.title()="My Title"	pit.title[My Title"]	pit.title("My Title")
646	10	Correct Syntax for titles with required font is:	D	1	plt.title('Ring Plot',fontsize=20,fontweight="bold",fontfamily="serif")	plt.plot('Ring Plot',fontsize=20,fontweight="bold",fontfamily="serif")	font1={'family':'serif','weight':'bold','size':'20'} plt.title('Ring Plot',fontdict=font1)	Both a and c are correct

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
647	10	What does the following Python code create? import matplotlib.pyplot as plt #day one, the age and speed of 13 cars: x=[5,7,8,7,2,17,2,9,4,11,12,9,6] y=[99,86,87,88,111,86,103,87,94,78,77,85,86] plt.scatter(x,y) #day two, the age and speed of 15 cars: x=[2,2,8,1,15,8,12,9,7,3,11,4,7,14,12] y=[100,105,84,105,90,99,90,95,94,100,79,112,91,80,85] plt.scatter(x,y) plt.show()	D	1	Two pie charts	One pie charts	Two scatter charts	One scatter charts
648	10	Which shape of marker will be printed in the scatter chart made using following code: plt.scatter(x,y,marker='D')	B	1	Down triangle	Diamond	Double circle	Pixel
649	10	For the following program, what output will be produced? import matplotlib.pyplot as plt x=[10,20,30,40,50,60,70,80,90] a=[8,1,7,2,0,3,7,3,2] plt.scatter(x,a,'o:r') plt.show()	C	1	Scatter Plot will be produced	Value Error in Line 2	Value Error in Line 4	Value Error in Line 3
650	10	Which type of error will be generated by this code given below? x=[10,20,30,40,50,60,70,80,90] a=[8,1,7,2,0,3,7,3,2] b=[7,2,5,6,1,4,5,3] plt.scatter(x,a,marker="*",color="green",s=200) plt.scatter(x,b,marker=".",color="red",s=500) plt.show()	B	1	Type	Value	Attribute	Syntax
651	10	Which of the following is correct syntax to create histogram with bins specified?	D	1	plt.hist(x,bins=10)	plt.hist(x,bins=[10,11,12,13,14])	plt.hist(x,bins=range(10,15))	All are correct
652	10	By default, hist() uses a bin value of _____.	B	1	5	10	15	20
653	10	Calculate no. of bins for the following data and syntax: data=[1,3,3,3,3,9,9,5,4,4,8,8,6,7] plt.hist(data,bins=?,color="violet")	C	1	2	3	4	5
654	10	Calculate bins width for the following data and syntax: data=[1,3,3,3,3,9,9,5,4,4,8,8,6,7] plt.hist(data,bins=4,color="violet")	A	1	2	3	4	5

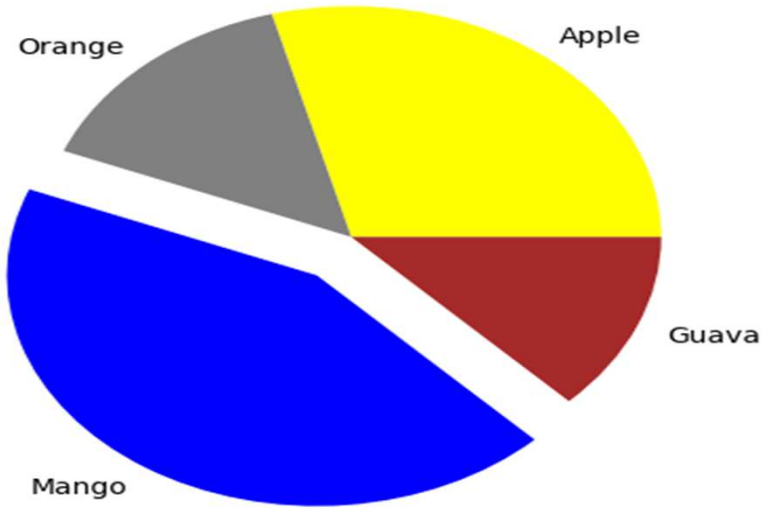
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655	10	<p>For the given below figure (Common Question from group_id: 655 TO 656) identify the correct sequence:</p> 	B	1	data= [1,1,2,3,3,3,4,4,5]	data=[1,2,2,2,3,3,3,4,4,5,5,5,5]	data=[1,2,2,3,3,3,3,4,4,5,5,5,5]	data=[1,1,1,2,3,3,3,4,4,4,5,5,5]
656	10	For given histogram, which program will give the following graph? (Refer figure from group_id: 655)	B	1	import matplotlib.pyplot as plt x = [1,2,2,2,3,3,3,4,4,5,5,5,5] plt.hist(bins=10) plt.show()	import matplotlib.pyplot as plt x = [1,2,2,2,3,3,3,4,4,5,5,5,5] plt.hist(x, bins=10) plt.show()	import matplotlib.pyplot as plt x = [1,2,2,2,3,3,3,4,4,5,5,5,5] plt.hist(x=10, bins) plt.show()	import matplotlib.pyplot as plt x = [1,2,2,2,3,3,3,4,4,5,5,5,5] plt(x, bins=10) plt.show()
657	10	State whether following statements/syntax are True (T) or False (F): 1.plt.barh(names,values,color="grey") 2.plt.hist(bins=4)	D	1	FT	TT	FF	TF
658	10	Harsh has written following code to create a bar chart- import matplotlib.pyplot as plt weekdays=['sun','mon','tue'] sale=[1234,3312,2541] plt.bar(weekdays,sale) But when executing this code he is not able to display any chart. What would you suggest him to execute code and display chart successfully?	B	1	Instead of using bar() he should use plot() method.	He should add show() function at the end of code.	He should use numpy array to store weekdays and sale data	No suggestion required
659	10	Consider the following code written to display a bar chart x=range(0,40,8) y=range(10,100,10) plt.bar(x,y) While executing it, is producing error. Why?	B	1	Both the sequences x and y do not start with 0	Both the sequences x and y are not of same shape	Values produced by range is not considered for chart.	Both the sequences x and y have values with different intervals
660	10	To show grid in a barplot which syntax is appropriate?	C	1	grid(true)	grid(false)	plt.grid(True)	plt.grid(False)

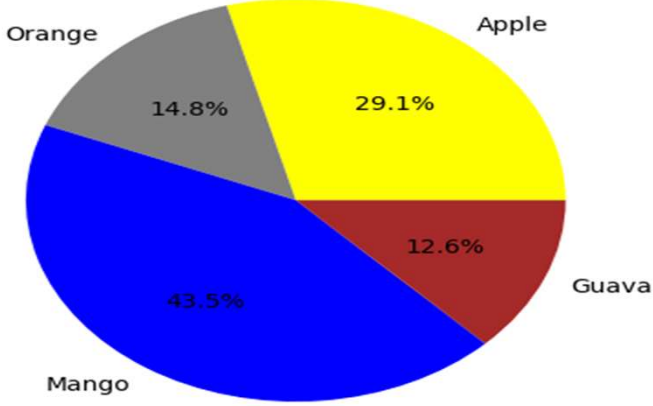
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661	10	The following given program lines will give which type of input? (Rest else lines are errorless) plt.barh(names,values,color="grey") plt.grid(True)	A	1	A horizontal bar chart with grids and grey color	A vertical bar chart with grids and grey color	A horizontal bar chart without grids and grey color	A vertical bar chart without grids and green color
662	10	The following program code will generate an error in which line? 1. import matplotlib.pyplot as plt 2. student={"Bob":87,"Jack":56,"Sam":27} 3. names=list(student.keys()) 4. values=list(student.values()) 5. plt.bar(names) 6. plt.show()	D	1	Line 1	Line 3	Line 2	Line 5
663	10	The following syntax will create: plt.subplot(2,1,1) plt.subplot(2,1,2)	A	1	Will create two subplots-above and below	Will create two different line plots	Will create two subplots (side by side)	Syntax error will be generated
664	10	The following syntax indicates: plt.subplot(3,1,2)	A	1	position of 1st plot at 3rd row, 1st column and 2nd place	position of 1st plot at 1st row, 3rd column, and 2nd place	position of 1st plot at 2nd row, 3rd column and 1st place	position of 1st plot at 2nd row, 1st column and 3rd place

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
665	10	<p>For the following output what should be the program? (All Important Libraries are already called)?</p> 	A	1	<pre>fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] myexplode=[0,0,0.2,0] plt.pie(no,labels=fruit,colors=['yellow','grey','blue','brown'],explode=myexplode) plt.show()</pre>	<pre>fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] myexplode=[0,0,0,0.2] plt.pie(no,labels=fruit,colors=['yellow','grey','blue','brown'],explode=myexplode) plt.show()</pre>	<pre>fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] myexplode=[0,0.2,0,0] plt.pie(no,labels=fruit,colors=['yellow','grey','blue','brown'],explode=myexplode) plt.show()</pre>	<pre>fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] myexplode=[0.2,0,0,0] plt.pie(no,labels=fruit,colors=['yellow','grey','blue','brown'],explode=myexplode) plt.show()</pre>
666	10	The following syntax is used in which type of chart? myexplode[0.2,0.2,0.2,0.2]	A	1	Pie	Scatter	Bar	Box plot
667	10	Syntax used in pie() to create wedges out from the pie chart is	A	1	plt.pie(y,labels=mylabels,explode=myexplode)	plt(y,labels=mylabels,explode=myexplode)	plt.pie(labels=mylabels,explode=myexplode)	plt.pie(y,labels,explode)
668	10	<p>Which line/s from the following Python program will throw an error?</p> <pre>1.from matplotlib import pyplot as plt 2.cars = ['Audi','Bmw','Ford','Tesla','Jaguar','Mercedes'] 3.data = [23,17,35,29,12,41] 4.fig=plt.figure(figsize=(10,7)) 5.plt.pie(cars,labels=cars) 6.plt.show()</pre>	C	1	Line 1	Line 3	Line 5	Line 2

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
669	10	<p>Write appropriate code for the given chart (important libraries are already included)</p> 	A	1	<pre>import matplotlib.pyplot as plt fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] plt.pie(no,labels=fruit,autopct='%0.1f%%',colors=['yellow','grey','blue','brown']) plt.show()</pre>	<pre>import matplotlib.pyplot as plt fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] plt.pie(fruits,labels=no,autopct='%0.1f%%',colors=['yellow','grey','blue','brown']) plt.show()</pre>	<pre>import matplotlib.pyplot as plt fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] plt.pie(labels=fruit,autopct='%0.1f%%',colors=['yellow','grey','blue','brown']) plt.show()</pre>	<pre>import matplotlib.pyplot as plt fruit=['Apple','Orange','Mango','Guava'] no=[67,34,100,29] plt.pie(no,labels=fruit,autopct='%0.1f%%',colors=['yellow','grey','blue','brown']) plt.show()</pre>
670	10	<p>For the following program what is the % of Chocolate Cake?</p> <pre>labels = 'Broccoli', 'Chocolate Cake', 'Blueberries', 'Raspberries' sizes = [30, 330, 245, 210]</pre>	A	1	40.49	4.049	400.49	30.06
671	10	<p>These cost categories applied to a \$9.00 microcontroller:</p> <p>Engineering \$1.35 Manufacturing \$3.60 Sales \$2.25 Profit \$1.80</p> <p>Create a pie chart will show the cost breakdown as different sized pieces.</p>		3				
672	10	<p>Here is how many students got each grade in the recent test: A- 4, B-12, C-10, D-2. Plot a pie chart for the student grades in the recent chart with different colors for each student grades and create a wedge for D. Also put a chart title as student's grade history.</p>		3				
673	10	<p>Imagine you survey your friends to find the kind of movie they like best: Comedy- 4, Action -5, Romance - 6, Drama -1, SciFi - 4. Plot a pie chart for the above survey and use different color for each analysis and create a wedge for action movies. Also put as chart title as "Survey analysis of movie"</p>		3				
674	10	<p>Create a Pie Chart using Python Program for the popularity data of different programming languages and displayed it as a pie chart using the Matplotlib Python library. For Python- 29, Java – 19, Javascript – 8, C# - 7, PHP – 6, C,C++ - 5, R – 3. Create an exploded view of python and show the % of each programming language in Pie Chart.</p>		3				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
675	10	Write a python program to create a bar plot of course v/s no. of students using the following dictionary with appropriate labels for X and Y axes and colour of the bars green. Data={'C':20,'C++':15,'Java':30,'Python':35}		3				
676	10	Create a bar chart for the following dataset: Country = ['USA','Canada','Germany','UK','France'] GDP_Per_Capita = [45000,42000,52000,49000,47000]. Also plot title, X-Axis, Y-Axis, different color for each country and the grid should be visible		3				
677	10	A Bar Chart to display employee id numbers on X-axis and their salaries as Y-axis in the form of a bar graph for two departments of a company. There are two departments like sales department and purchase department. For sales department their id's and salaries are mentioned as : x= [1001,1003,1006,1007,1009,1011] and y= [10000, 23000.50,18000.33,16500.5,12000.75, 9999.99] and for purchase department their id's and salaries are mentioned as: x=[1002,1004,1010,1008,1014,1015] and y=[5000,6000,4500.5,12000,9000,10000]. Make the chart title as "Microsoft Inc.", x-axis as employee id and Y axis as Salary. Use different colors for sales and purchase department.		5				
678	10	Write a program to build two bar graphs using subplot function for given two dictionaries in which one graph is in 1st row and another in second row which is horizontal representation of bar graph. D1={"aryan":66,"bob":70,"jack":66,"seema":34} D2={"joy":45,"sid":85,"hina":90} And also make a title of graph at top as "BAR PLOT".		5				
679	10	A program to display a histogram showing the number of employees in specific age groups. The data is shown: emp_ages=[22,45,30,59,58,56,57,45,43,43,50,40,34,33,25,19] and their bins are [0,10,20,30,40,50,60]. Create a histogram with x-axis label as "employee ages" and y axis label as " no. of employees". Create a title of the plot as "Oracle Corp". Also the color of histogram created should be cyan.		3				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)
680	10	Jeff is a branch manager at a local bank. Recently Jeff's is receiving customer feedback saying that the wait times for a client to be served by a customer service representative are too long. Jeff decides to observe and write down the time spent by each customer on waiting. Here are his findings from observing and writing down the wait times spent by 20 customers (in seconds): 43.1, 35.6, 37.6,36.5,45.3,43.5,40.3,50.2,47.3,31.2,42.2,45.5,30.3,31.4,35.6,45.2,54.1,45.6,36.5,43.1. Plot a histogram for the above data. Calculate bins and bins width and plot with calculated bins.		5				
681	10	Uncle Bruno owns a garden with 30 black cherry trees. Each tree is of a different height. The height of the trees (in inches): 61, 63, 64, 66, 68, 69, 71, 71.5, 72, 72.5, 73, 73.5, 74, 74.5, 76, 76.2, 76.5, 77, 77.5, 78, 78.5, 79, 79.2, 80, 81, 82, 83, 84, 85, 87. Plot a histogram with color green, title of the chart should be height of trees along with it's fontsize as 20.		3				
682	10	A Program to create a line graph to show the profits of a company in various years. The data is as mentioned: x axis as years and y axis as profits (in Millions). X=[2012,2013,2014,2015,2016,2017] and y = [9,10,10.5,8.8,10.9,9.75]. Plot a line chart with x axis as "Years" and y axis as "Profits (in Millions)" and title of the line chart as "XYZ Company". Also the linestyle should be dashed one.		3				
683	10	Create a Line Plot in which x points varies from 3 to 21. And the y points varies according to the equation $y=2x+8$.		3				
684	10	Laurell had visited a zoo recently and had collected the following data. How can Laurell use a scatter plot to represent this data? .Take Type of Animal as X-axis and no. in Y axis. The data is as follows: Zebra-25, Lions- 5, Monkeys- 50, Elephants -10, Ostriches - 20		3				
685	10	Prayatna sells designer bags and wallets. During the sales season, he gave discounts ranging from 10% to 50% over a period of 5 weeks. He recorded his sales for each type of discount in an array. Draw a scatter plot to show a relationship between the discount offered and sales made. Take 5 sales in Rupees as user defined values		3				

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Sr. No.	unit_number	question_text	answer_text	marks	option1 (A)	option2 (B)	option3 (C)	option4 (D)																																																	
686	10	<p>Consider that a survey has to be done on income and saving of each month for seven different persons. The data collected can be plotted in different plotting methods. Draw a scatter plot by considering following style properties.</p> <p>(a)Consider red colour for “High income low saving” and blue colour for “Low income high saving”</p> <p>(b)Add label for each field i.e. “High income low saving” and “low income high saving” details.</p> <p>(c)Add x and y label, x label should be named as ‘SAVINGS (in hundreds)’ and y label should be named as ‘INCOME (in thousands)’.</p> <p>(d)Add a title named ‘Income v/s salary scatter plot’.</p> <p>(e)Add legends at the upper right corner.</p> <table><tr><th colspan="5">INCOME V/S SALARY SCATTER PLOT</th></tr><tr><th rowspan="2">PERSONS</th><th colspan="2">HIGH INCOME LOW SAVING</th><th colspan="2">LOW INCOME HIGH SAVING</th></tr><tr><th>X</th><th>Y</th><th>X1</th><th>Y1</th></tr><tr><td>PERSON 1</td><td>100</td><td>7500</td><td>800</td><td>3000</td></tr><tr><td>PERSON 2</td><td>150</td><td>8000</td><td>850</td><td>3500</td></tr><tr><td>PERSON 3</td><td>200</td><td>8500</td><td>900</td><td>3700</td></tr><tr><td>PERSON 4</td><td>250</td><td>9000</td><td>950</td><td>4000</td></tr><tr><td>PERSON 5</td><td>300</td><td>9500</td><td>100</td><td>4500</td></tr><tr><td>PERSON 6</td><td>350</td><td>10000</td><td>105</td><td>5000</td></tr><tr><td>PERSON 7</td><td>360</td><td>10500</td><td>110</td><td>5200</td></tr></table>	INCOME V/S SALARY SCATTER PLOT					PERSONS	HIGH INCOME LOW SAVING		LOW INCOME HIGH SAVING		X	Y	X1	Y1	PERSON 1	100	7500	800	3000	PERSON 2	150	8000	850	3500	PERSON 3	200	8500	900	3700	PERSON 4	250	9000	950	4000	PERSON 5	300	9500	100	4500	PERSON 6	350	10000	105	5000	PERSON 7	360	10500	110	5200		5				
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687	10	<p>Consider that a survey has to be done on how much distance the following vehicles have covered in a span of five days. The data collected can be plotted in different plotting methods. Draw a scatter plot by considering following style properties.</p> <p>(a)Consider red colour for ENFIELD, blue colour for HONDA, yellow colour for YAMAHA and black colour for KTM.</p> <p>(b)Add label for each bike details.</p> <p>(c)Add x and y label, x label should be named as ‘Days’ and y label should be named as ‘Distance in kms’.</p> <p>(d)Add a title named ‘Bike details in scatter plot’.</p> <p>(e)Add legends at the upper right corner.</p> <table><tr><th colspan="5">BIKES</th></tr><tr><th rowspan="2">DAYS</th><th colspan="4">DISTANCE COVERED IN KMS</th></tr><tr><th>ENFIELD</th><th>HONDA</th><th>YAHAMA</th><th>KTM</th></tr><tr><td>DAY 1</td><td>50</td><td>80</td><td>70</td><td>80</td></tr><tr><td>DAY 2</td><td>40</td><td>20</td><td>20</td><td>20</td></tr><tr><td>DAY 3</td><td>70</td><td>20</td><td>60</td><td>20</td></tr><tr><td>DAY 4</td><td>80</td><td>50</td><td>40</td><td>50</td></tr><tr><td>DAY 5</td><td>20</td><td>60</td><td>60</td><td>60</td></tr></table>	BIKES					DAYS	DISTANCE COVERED IN KMS				ENFIELD	HONDA	YAHAMA	KTM	DAY 1	50	80	70	80	DAY 2	40	20	20	20	DAY 3	70	20	60	20	DAY 4	80	50	40	50	DAY 5	20	60	60	60		5				
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DAY 5	20	60	60	60																																											
688	10	<p>Plot a subplot showing the marks of 5 students for 6 subjects (Digital Electronics, Probability and Stochastics, Python, Full Stack Development, IELTS (Reading), and Data Structure). All the marks for each subject and for each student is to be taken user defined. Subplot should be prepared for each subject. Each Subplot should have a title of subject along with a main title of a plot.</p>		5																																											