Seat No.	:	

P.T.O.

AJ-126

April-2023

M.Sc. (CA&IT), Sem.-IV

Open-Source Technologies

Tim	e : 2:3	[Max. Marks	: 70
1.	Ansv	wer the followings: (ANY TWO)	14
	(1)	What is Open Source Software? Explain the difference between commercial software and open source software.	
	(2)	Define Application Programming Interface with diagram.	
	(3)	Explain Open Source Development Model with diagram.	
2.	(A)	Answer the followings:	10
		(1) What is Vim editor? Explain different modes and commands of the editor.	
		(2) Explain File System Management with figure.	
	(B)	What is Environment Variable? Also give an example to set Environment variable.	t 4
3.	(A)	What is Python ? And explain its features.	7
		OR	
		What is Python? And explain its applications.	7
	(B)	What is the difference between List and Tuple data structure? Also define the functions of List.	; 7
4.	Ansv	wer the followings : (ANY TWO)	14
	(1)	What is exception? Explain how to handle it in Python (with proper example).	
	(2)	Define different modes to open a file in Python.	
	(3)	What is Inheritance ? Explain types of Inheritance.	
	(4)	What is containership? Also explain the difference between containership and inheritance.	l

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(A) Explain followings: (ANY TWO)
                                                                                       8
     (1) Class Variable and Class Method.
     (2)
           Any four methods of Math module.
     (3)
           Variable length arguments and Keyword argument.
     What will be the output of the following codes? (ANY THREE)
(B)
                                                                                       6
           def dis():
      (1)
                 print("a");print("b");return;print("c");print("d")
           dis()
           def f():
      (2)
                 s = "Hello World"
                 print(s)
                 s = "Welcome to Python Programming."
           f()
           print(s)
     (3)
           def f():
                 global var
                 print(varr)
                 var = 10
                 print(var)
           var = 100
           print(var)
           f()
     (4) num = -1
           if(num + 1):
                 if(num*2) >= 0:
                    print("you win")
                 else:
                    print("try again")
```

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5.