

Enrollment No.....



Faculty of Engineering
End Sem (Even) Examination May-2022
CA5EL54 Programming in Python

Programme: MCA

Branch/Specialisation: Computer
Application**Duration: 3 Hrs.****Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q.1 i. What is used to define a block of code in Python? 1
 (a) Parenthesis (b) Indentation
 (c) Curly braces (d) None of these
- ii. _____ is a repetition operator. 1
 (a) + (b) # (c) * (d) &
- iii. What will be the output of the following python code? 1
`days = ["Sunday", "Monday", "Tuesday", "Wednesday"];`
`print(days[-3:-1])`
 (a) ["Tuesday", "Wednesday"]
 (b) ["Monday", "Tuesday"]
 (c) ["Sunday", "Monday"]
 (d) ["Sunday", "Wednesday"]
- iv. What datatype(s) is/are stored in *args, when passed into a function? 1
 (a) List (b) Tuple (c) Dictionary (d) All of these
- v. _____ function will make the child class inherit all the methods and properties from its parent. 1
 (a) Self (b) _init() (c) Super (d) Pass
- vi. The _____ parameter is a reference to the current instance of the class, and is used to access variables that belong to the class. 1
 (a) Self (b) _init() (c) Super (d) Default
- vii. Which exception is raised when a calculation exceeds maximum limit for a numeric type? 1
 (a) StandardError (b) ArithmeticError
 (c) OverflowError (d) FloatingpointError

P.T.O.

[2]

viii. Which statement will move file pointer 10 bytes backward from current position? **1**

- (a) f.seek(-10, 0) (b) f.seek(-10, 1)
(c) f.seek(10, 0) (d) f.seek(0, 0)

ix. The python code given below can work with _____parameters. **1**

```
def disp(x):
    def disp1(*args, **kwargs):
        print("")
        return x(*args, **kwargs)
    return disp1()
```

- (a) 0 (b) 1 (c) 3 (d) Any number of

x. Which of the following characters matches a pattern only at the beginning of the string? **1**

- (a) \Z (b) \B (c) \D (d) \A

Q.2 i. Illustrate input statement or method with suitable example. **2**

ii. What is indentation? Explain with suitable example. **3**

iii. Describe comparison operators with suitable example. **5**

OR iv. Demonstrate 'if' and 'elif' statement with suitable example. **5**

Q.3 i. Write difference between List and Tuple. **2**

ii. How is a list created? Explain with its syntax and example. **3**

iii. Compare actual and formal arguments with example. **5**

OR iv. Write a recursive function to find factorial of a number which is entered by the user. **5**

Q.4 i. What is class? Discuss built in class attributes. **2**

ii. What is polymorphism? Describe with suitable example. **3**

iii. Explain Multiple inheritance with an example. **5**

OR iv. Differentiate overloading and overriding with suitable example. **5**

Q.5 Attempt any two:

i. Illustrate try-except-else with example. **5**

ii. Explain with an example to copy the contents of one file to another. **5**
Use exception handling to print proper messages.

[3]

iii. List out the types of Modules. Also explain any two types in detail. **5**

Q.6 Attempt any two:

i. What is Context? What is the role of 'with' statement in context? **5**
Explain how to define context manager function.

ii. What do you mean by Iterators and Generators? Explain it. **5**

iii. What is the role of regular expression in python? Write a Python **5**
program to match a string that contains only upper and lowercase letters, numbers, and underscores using regular expression.

Marking Scheme CA5EL54 Programming in Python				
Q.1	i.	What is used to define a block of code in Python?	1	
		(b) Indentation	1 Mark	
	ii.	_____ is a repetition operator.	1	
		(c) *	1 Mark	
	iii.	What will be the output of the following python code? days = ["Sunday", "Monday", "Tuesday", "Wednesday"]; print(days[-3:-1])	1	
		(b) ["Monday", "Tuesday"]	1 Mark	
	iv.	What datatype(s) is/are stored in *args, when passed into a function?	1	
		(b) Tuple	1 Mark	
	v.	_____ function will make the child class inherit all the methods and properties from its parent.	1	
		(c) Super	1 Mark	
	vi.	The _____ parameter is a reference to the current instance of the class, and is used to access variables that belong to the class.	1	
		(a) Self	1 Mark	
	vii.	Which exception is raised when a calculation exceeds maximum limit for a numeric type?	1	
		(c) OverflowError	1 Mark	
	viii.	Which statement will move file pointer 10 bytes backward from current position?	1	
		(b) f.seek(-10, 1)	1 Mark	
	ix.	The python code given below can work with _____parameters.	1	
		def disp(x): def disp1(*args, **kwargs): print("") return x(*args, **kwargs) return disp1()		
		(d) Any number of	1 Mark	
	x.	Which of the following characters matches a pattern only at the beginning of the string?	1	
Q.2	i.	Discuss input statement	1 Mark	2
		Example.	1 Mark	
	ii.	Definition of indentation	1 Mark	3
		Example.	2 Marks	
	iii.	List of all operators	1 Mark	5
		Explanation with example.	4 Marks	
OR	iv.	About 'if' and 'elif'	2 Marks	5
		Example.	3 Marks	
Q.3	i.	Difference between List and Tuple	1 Mark each (1 Mark*2)	2
	ii.	List created	1 Mark	3
		Explanation with example.	2 Marks	
	iii.	About actual and formal arguments	2 Marks	5
		Example.	3 Marks	
	OR iv.	Input, output calling	3 Marks	5
		Recursion	2 Marks	
Q.4	i.	About class	1 Mark	2
		Brief about attributes.	1 Mark	
	ii.	Polymorphism		3
		Definition	1 Mark	
		Example	2 Marks	
	iii.	About Multiple inheritance	2 Marks	5
OR		Example.	3 Marks	
	iv.	Differentiate	2 Marks	5
		Example.	3 Marks	
Q.5	Attempt any two:			
	i.	Description	2 Marks	5
		Example	3 Marks	
	ii.	Copy	3 Marks	5
		Exception handling use	2 Marks	
	iii.	Types of module		5
		Listing	1 Mark	
		2 type of module	2 Marks each (2 marks*2)	

Q.6	Attempt any two:		
i.	Context	1 Mark	5
	Role of ‘with’	2 Marks	
	Define context manager	2 Marks	
ii.	Iterators	2.5 Marks	5
	Generators	2.5 Marks	
iii.	Role	2 Marks	5
	Program logic	3 Marks	
