

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: BCAC403 Python Programming UPID: 400088

Time Allotted: 3 Hours

Full Marks:70

The Figures in the margin indicate full marks.

Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)



- 1. Answer any ten of the following:
 - (I) What will be the output of the following Python code?

- >>> a<b
- (II) What is the extension of the Python file?
- (III) What will be the output of the following Python program?

print(0)

- (IV) Suppose list1 is [2, 33, 222, 14, 25], What is list1[:-1]?
- (V) What will be the output of the following Python code?

- (VI) What will be the value of the following Python expression? 4 + 3 % 5
- (VII) What will be the output of the following Python code?

 print("Hello {0[0]} and {0[1]}".format(('foo', 'bin')))
- (VIII) What will be the output of the following Python code?

a. extend([45, 67])

print(a)

(IX) What will be the output of the following Python code?

>>> a={4, 5, 6}
>>> b={2, 8, 6}
>>> a+b

(X) What is the order of precedence in python?

(XI) The process of pickling in Python includes

(XII) What will be the output of the following Python code?

>>>t = (1, 2, 4, 3, 8, 9)
>>>[t[i] for i in range(0, len(t), 2)]

Group-B (Short Answer Type Question)

| | Answer any three of the following: | [5 x 3 = 15] |
|-------------------------------------|---|---------------|
| 2. | Define a property that must have the same value for every class instance (object). | [5] |
| 3. | Define variable in Python? | [5] |
| 4. | Is elif a nested if in Python? | [5] |
| 5. | What are functions in Python? | [5] |
| 6. | Write a Python class to get all possible unique subsets from a set of distinct integers. | [5] |
| Group-C (Long Answer Type Question) | | |
| | Answer any three of the following: | 15 x 3 = 45] |
| 7. | (a) Define functions in Python. | [5] |
| | (b) Write a Python function that takes a number as a parameter and checks whether the number is prime or not. | [10] |
| 8. | (a) What are the advantages and disadvantages of using a for loop in Python? | [10] |
| | (b) How can I use a break statement in a for loop in Python? | [5] |
| 9. | (a) Explain Inheritance in Python with an example. | [10] |
| | (b) How are classes created in Python? | [5] |
| 10. | Write a Python function student_data () that will take as argument student_name and student_class from the user and print the student name and class. | n [15] |
| 11. | (a) How to comment multiple lines in Python? | [5] |
| | (b) What is a dictionary in Python? Explain with an example. | [10] |

*** END OF PAPER ***

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