MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code : MCAN-101   Programming Concept with Python

UPID : 001607

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 × 10 = 10]

1. Answer any ten of the following

   (i)   Differentiate structured and unstructured programming.

   (ii) Write the output
   ```
   >>> minutes = 645
   >>> hours = minutes // 60
   >>> hours
   ```

   (iii) Differentiate while and for loop.

   (iv) How do we convert the string to lowercase?

   (v)   How does a function return values?

   (vi) How to delete a file?

   (vii) How to express switch-case statements using flowchart?

   (viii) What will happen if we write
   ```
   >>> 17 = n
   >>> print(n)
   ```

   (ix) Define iterator.

   (x)   Explain the statement t.seek(-3, 2)

   (xi) What is the value of M and N respectively? if M390485458N is divisible by 8 & 11; where M & N are single digit integers?

   (xii) How to express subroutine calls using flowchart?

Group-B (Short Answer Type Question)
Answer any three of the following

[5 × 3 = 15]

2. Write a program to get the eigenvalues of a matrix. [5]
3. What is the difference between list and tuple in Python? Explain with example. [5]
4. Draw a flowchart to calculate the factorial of a number given by the user. [5]
5. Explain the use of modulus operator in python. [5]
6. Explain the use of BCD and Gray code with examples. [5]

Group-C (Long Answer Type Question)
Answer any three of the following

[15 × 3 = 45]

7. (a) Find the most frequent value in a NumPy array. [5]
    (b) Compute the covariance matrix of two given NumPy arrays. [5]
    (c) Write a program to replace NaN values with the average of columns. [5]

8. (a) Does multiple inheritance is supported in Python? Explain with example. [5]
    (b) How can we create a constructor in Python programming? [5]
    (c) How do you copy an object in Python? Give example. [5]

9. (a) Draw a flowchart and write an algorithm for binary search. [10]
    (b) Write the pseudocode for linear search. [5]

10. (a) Explain the difference between left hand side and right hand side of assignment with an example. [5]
    (b) How are implicit and explicit type conversions done in python? [5]
    (c) Explain the case sensitivity of python. How to take console input. [5]

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