07/02

CS/MCA(A)/ODD/SEM-1/1607/2022-2023/1066

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. Answer any ten of the following [1 × 10 = 10]

(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 f.seek(-3, 2)

(xi) What is the value of M and N respectively? If M39048458N 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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