



07/02

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**Paper Code : MCAN-101 Programming Concept with Python  
UPID : 001007

CS/MCA/UG/ODD/SEM-1/160700022-2023-09-06

Time Allotted : 3 Hours

Full Marks : 70

The Figures in the margin indicate full marks  
Candidates 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  
`s = 645`  
`s = s - minutes // 60`  
`s = s - minutes`
- (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  
`s = 17 + n`  
`s = print(n)`
- (ix) Define iterator.
- (x) Explain the statement `look(-3, 2)`
- (xi) What is the value of M and N respectively? if `M30N45458N` is divisible by 6 & 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 ]

1/2

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piston is 62.8 cubic inches  $V = \pi r^2 h$   $V = 3.14 \times 2.5^2 \times 52$   $V = 62.8$  the bore measurement is a