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Reg. No.: .....

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V Semester B.A./B.A. Afsal-UI-Ulama/B.Sc./B.Com./B.T.T.M./B.B.A./
B.B.A. – T.T.M./B.B.A. – A.H./B.C.A./B.S.W./B.M.C. Degree
(C.B.C.S.S. – O.B.E. – Regular/Supplementary/Improvement)

Examination, November 2025
(2019 to 2023 Admissions)

Generic Elective Course

5D03 AIML : PROGRAMMING IN PYTHON

Time: 2 Hours

Max. Marks: 20

## SECTION - A

Answer all questions.

 $(6 \times 1 = 6)$ 

- 1. Which are the membership operators in Python? Give example.
- 2. What is a tuple? Give example.
- 3. What is numpy?
- 4. What is the use of split() function in Python?
- 5. What is the purpose of math module in Python?
- 6. Give the syntax and example for opening a file.

## SECTION - B

Answer any four questions.

 $(4 \times 2 = 8)$ 

- 7. Explain slicing operations on strings in Python.
- 8. How will you insert an item to a dictionary? Give example.
- 9. Explain the append() and count() functions in list with an example.

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- 10. What are lambda functions?
- 11. Explain reshape() in numpy with an example.
- 12. Explain arithmetic operations on numpy arrays with example.

## SECTION - C

Answer any one question.

 $(1 \times 6 = 6)$ 

- 13. Explain if, if..else and if..elif..else statements in Python with syntax and example.
- 14. Explain required arguments and keyword arguments in Python functions with examples.