

School of University Polytechnic**Diploma in Computer Science and Engineering
Semester End Examination - Aug 2024****Duration : 180 Minutes
Max Marks : 100****Sem V - N1DF504C - Python**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | What is an operator in Python? | K1(2) |
| 2) | Demonstrate the concept of slicing in Python? | K2(4) |
| 3) | How do you make 3D plots/visualizations using NumPy/SciPy?
Explain. | K2(6) |
| 4) | Identify the difference between immediate mode and script mode? | K3(9) |
| 5) | Construct a program in Python to produce Star triangle. 1 2 3 4 | K3(9) |
| 6) | What is the difference between Python Arrays and lists? | K5(10) |
| 7) | List the steps to install Python on Windows and set path variable? | K4(12) |
| 8) | What are functions in Python? | K5(15) |
| 9) | Determine why do we use join() function in Python? | K5(15) |
| 10) | Create the blockdiagram of Python Progarmig Paradigm. | K6(18) |