

**Sample Question Paper
for
Mathematics using Python**

Duration:3 Hrs

30 weightage

1 Answer all Questions. $4 \times 1\frac{1}{2}$

1. What are the main document classes supported by LaTeX.
2. Typeset $\sin^2 x + \cos^2 x = 1$ using LaTeX.
3. Plot a circle using the polar() function.
4. Write code to print all perfect cubes upto 2000.

2 Answer any two Questions. 3×5

1. Set a sample question paper using LaTeX.
2. Write a Python function to calculate the GCD of two numbers
3. Write a program with a Canvas and a circle drawn on it.

End