2020

MATHEMATICS

[HONOURS]

Paper : VIII Group-'C/3'

[PRACTICAL]

Full Marks: 50

Time: 4 Hours

The figures in the right-hand margin indicate marks.

Answer all the questions.

SET-2

1. Write a C program to find the sum of the series

$$1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$$
.

- 2. Write a C program to find a root of the equation $x^3 x 3 = 0$ by Newton-Raphson method, correct up to 4 decimal places.
- 3. Solve the following system of equations by Gauss elimination method, correct up to three-significant figures:

$$2x + 3y + z = 9$$

$$x + 2y + 3z = 6$$

$$3x + y + 2z = 8$$
.

15

4. Evaluate the missing terms in the following table:

X	0	1	2	3	4	5
f(x)	0	_	8	15	1	35

10
