U.G. 3rd Semester Examination - 2020 MATHEMATICS

[HONOURS]

Course Code : MATH(H)-CC-P-07
[PRACTICAL]

SET-3

Full Marks: 20 Time: 2 Hours

The figures in the right-hand margin indicate marks.

Answer all the questions:

 $10 \times 2 = 20$

- 1. Write a program in C to find a real root of the equation $10^{x}+5x-10=0$ by Newton-Raphson method. Hence solve it.
- 2. Write a program in C to evaluate $\int_{1.2}^{2.2} \left(x^3 \frac{1}{x^3} \right) dx$ by

Simpson's $\frac{1}{3}$ rd rule with ten sub-intervals. Hence find the integral value.
