U.G. 3rd Semester Examination - 2020 MATHEMATICS

[HONOURS]

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

SET-8

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 to evaluate $\int_{2.1}^{2.2} \frac{dx}{x + \log_{10} \left(7x^2 + 2x + 7\right)}$

by Trapezoidal rule, taking 12 equal intervals.

2. Write a program to solve the following equations:

$$27x+6y-z=85$$

$$x+y+54z=110$$

$$6x+15y+2z=72$$

by Gauss-Seidel method, correct to 5-decimal places.