

U.G. 3rd Semester Examination - 2021**MATHEMATICS****[HONOURS]****Course Code : MATH-H-CC-P-07****[PRACTICAL]****SET-2**

Full Marks : 20

Time : 2 Hours

*The figures in the right-hand margin indicate marks.***Answer all the questions:**

10×2=20

1. Write a program in C to evaluate $\int_{2.2}^{4.4} e^{3x} \tan^{-1}x \, dx$ by

Trapezoidal rule with 14 sub-intervals. Hence find the integral value.

2. Write a program in C to find $y(0.4)$ using Euler method

with $h=0.1$ from $\frac{dy}{dx}=x^2-y^2$, $y(0)=1$. Write the

output result.
