U.G. 3rd Semester Examination - 2020
MATHEMATICS
[HONOURS]
Course Code : MATH(H)-CC-P-07-P
[PRACTICAL]

SET-10

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 to evaluate $\int_{0.2}^{1.5} e^{-x^2} dx$ by using three point Gauss quadrature formula.   10

2. Write a program to compute $y(0.4)$, by Runge-Kutta method correct to five decimal places, from the equation $\frac{dy}{dx} = xy$, $y(0)=2$, taking $h=0.1$.   10

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