

U.G. 3rd Semester Examination - 2020

MATHEMATICS

[HONOURS]

Course Code : MATH(H)-CC-P-07

[PRACTICAL]

SET-11

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 find a real root of the equation $3x + \sin x - e^x = 0$ by secant method, correct to four decimal places. 10
2. Write a program to find the largest eigen value and the corresponding eigen vector of the matrix

$$\begin{pmatrix} 1 & 6 & 1 \\ 1 & 2 & 0 \\ 0 & 0 & 3 \end{pmatrix}$$

by using power method.

10
