U.G. 6th Semester Examination - 2021

MATHEMATICS

Course Code : BMTMCCHS602

Course Title : Computer Aided Numerical Practical [PRACTICAL]

Full Marks : 20   Time : 1 Hour

The figures in the right-hand margin indicate marks.

Notations and symbols have their usual meanings.

1.   Answer any **four** questions: 5×4=20

   i)   Write a C-program to find the largest of three real numbers.

   ii)   Write a C-program to check whether a given number is prime or not.

   iii)   Write a C-program to display the first 10 numbers of a Fibonacci sequence.

   iv)   Write a C-program to check whether a given year is a leap year or not.

   v)   Write a C-program to find the mean of n numbers.

   vi)   Write a C-program to find the roots of $x^2 - 3x + 2 = 0$ using Newton-Raphson method.

   vii)   Write a C-program to calculate the value of $\int_0^1 e^x \, dx$ using Simpson's one-third rule taking 10 sub-intervals.

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