

B.Sc. Semester-V 2020

Internal Assessment

Subject-CEMA, DSE-A-2

Time: 30 minutes

Full Marks: 10

Answer any 4 questions. Each question carries 2.5 marks.

1. Find the integral of $f(x)=x*\exp(-x)$ by Simpson method
(Given: $a=0$, $b=1.2$ and $h= 0.24$)
2. Solve the quadratic equation $X^2+5X+6=0$ using Goal Seek excel function (Find one root).
3. What is the probability of finding a result between -1 to 0.75 (z) for normal distribution.
4. Write a Fortran program to find the biggest among the three numbers.
5. Write a Fortran program to compute the factorial of a given number.
6. Write a Fortran program to evaluate the probability of finding molecules having speed within the range c and $c+dc$.