St. Mira's College for Girls, Pune
(Autonomous-Affiliated to SavitribaiPhule Pune University)
Class:SYBSC Computer Science
Subject: Numerical Analysis
Subject Code:BS32104
Semester: III
Year: 2021-22

1. Unit No.: 1
2. Employability/Entrepreneurship/Skill development
   Skill Development : Problem Solving, computing skills
3. Test on **Errors** on Google Form

SYBSC Mathematics Paper 2 Sem 3 Numerical Analysis

Internal Exam 1 · 01-09-2021

Name *

Komal sawant

Q.1) State the number of significant digits in each number and write the precision of each number. (3 Marks) 1) 0.0003456 2) 1245.809800 3) 3456.0012990

0.0003456 -significant digits are 8 and precision is 10^-7. 1245.809800 significant digits are 10 and precision number is 10^-6. 3456.0012990-significant digits are 11 and precision number is 10^-7

Q.2) Find the absolute, relative and percentage error if true value is 12.675 and approximate value is 12.5675 (3 Marks)

Q2 - 5401 komal ...

Q.3) Find 3 approximations to the exact root of the following equation using Regula Falsi Method. x^5 - 5x + 3 =0 in the interval (0, 1). (4 Marks)

Q3 - 5401 komal ...

Q.4) Obtain a formula to find 4th root of a number using Newton Raphson Formula. Hence find 2 approximations to the 4th root of 650. (5 Marks)

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