Numerical Analysis; 2/2 – 2019; TT#1; Marks: 10; Time: 40 minutes

[If (students_ID/2=0) answer even numbered questions, else answer odd numbered questions]

Q.1. Discuss the method of Newton-Rapson's to find an approximate root of an equation $f(x) = 0$.

Q.2. Discuss the method of False Position to find an approximate root of an equation $f(x) = 0$.

Q.3. Find a real root of the equation $x^3 - 2x^2 - 4 = 0$ by using Newton-Rapson method. Assume that a= $0, b = 3$.

Q.4. Find a real root of the equation $x^3 - 2x^2 - 4 = 0$ by using False Position method. Assume that a= $0, b = 3$.