BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)

Term-End Practical Examination

June, 2015

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BCSL-058(P)/S3 : COMPUTER ORIENTED NUMERICAL TECHNIQUES LAB

Time : 1 Hour   *Maximum Marks : 50*

Note :   (i)   *There are two questions in this paper, and both are **compulsory**.*

(ii)   *Each question carries 20 marks.*

(iii)   *10 marks are reserved for viva-voce.*

(iv)   *The programs may be written in any **one** of the programming languages out of C, C++, MS-Excel or Spreadsheet.*

1.   Write a program to implement Bisection Method **or** Secant Method (only one of the methods) for finding out an approximate root of the equation $x^2 - 9x + 20 = 0$. You may make your own assumptions.   *20*

2.   Write a computer program that implements Trapezoidal rule for approximating the value of a definite integral. Use it to approximate the value of

$$\int_{4}^{7} (4x^2 + 3x - 8)\, dx \quad \text{with } h = 1 \cdot 0.$$ *20*