

**BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)**

00206

Term-End Practical Examination**June, 2016****BCSL-058(P)/S3 : COMPUTER ORIENTED NUMERICAL TECHNIQUES LAB***Time : 1 Hour**Maximum Marks : 50*

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- 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 implemented in any **one** of the programming languages out of C, C++, MS-Excel or Spreadsheet.*
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1. Write a program to implement Secant method or Bisection method (only **one** of the methods) for finding an approximate root of an equation. Use it to find a root of $2x^2 - 9x + 9 = 0$. 20
2. Write a program to implement Simpson's 1/3 formula to approximate the value of a definite integral. Use it to approximate the value of $\int_1^3 dx / (1 + x^2)$, using three nodal points. 20
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