

BACHELOR OF ARTS/SCIENCE IN MATHEMATICS
SEMESTER VI
PAPER CODE: BMATH-607(06)

Unit – V

Practical – 50 Marks (List of practical topics based on MATLAB)

1. Plotting of functions.
2. Matrix operations, vector and matrix manipulation, matrix function.
3. Data analysis and curve fitting.
4. Use of FFT algorithm.
5. Numerical Integration.
6. Differential equations.
7. 2-D graphics and 3-D graphics general purpose graphic functions, colour maps and colour functions.
8. Sparse matrices Iterative methods for sparse linear equations, eigenvalues of sparse matrices.

Instructions for Practical

[Two Programs only

- a) Program writing 10 marks,
- b) Output – 30 marks
- c) Viva voice – 5 marks and
- d) Note book – 5 marks]
