**Department of Computer Science & Engineering**

**M.Tech – First Semester: Coding Assignment**

**Max. Marks: 06**

Distribution of Marks:

Algorithm : 01

Executable Code : 01

Write up on application : 02

Demonstration on system with viva : 02

Last date of submission : On or before 24th November 2015

Time for Demo : Between 4.00pm – 5.00 pm on any date

Extended date : On or before 29th November 2015 with -1 for each

day extended

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| Roll No | Question |
| 01 | Implementation of Multistage Graph problem |
| 02 | Implementation of String Editing problem |
| 03 | Implementation of Maximum Flow Graph algorithm |
| 04 | Implementation of Modular Exponential problem |
| 05 | Implementation of Randomized Quick Sort |
| 06 | Implementation of Segment intersection problem |
| 07 | Implementation of Closest pair algorithm |
| 08 | Implementation of Range Search problem |
| 09 | Implementation of Convex hull using Jarvis march |
| 10 | Implementation of Convex hull using Graham Scan |
| 11 | Implementation of Clique, Independent Set and GPT problem in one program |
| 12 | Implementation of Tries with suitable example |
| 13 | Implementation of Huffman coding with suitable example |
| 14 | Implementation of Boyer Moore string comparison algorithm |
| 15 | Implementation of Robin Krap string comparison algorithm |
| 16 | Implementation of KMP String comparison algorithm |
| 17 | Implementation of TSP using Branch and Bound |
| 18 | Implementation of Extended Euclidian algorithm |
| 19 | Implementation of Randomized Minimum Cost Spanning tree algorithm\_ |
| 20 | Implementation of LCS and computing second largest LCS |

Expected in write up:

Well formulated write up on:

1. Introduction to topic
2. Algorithm
3. Explaining executable code
4. Example demonstration
5. Applications
6. References