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| Course – Section | Computer Networks (CS3001 - Fall 2023) – *BDS-7B* |
| Assignment Num. | 05 |
| Total Marks | **30** |
| Start Date | 3-December-2023 |
| Due Date/Time | 7-December-2023 |
| Author | Muhammad Hashim Bilal Qureshi ([l201219@lhr.nu.edu.pk](mailto:l201219@lhr.nu.edu.pk)) |
| Teacher | Ms. Umme Ammarah ([umme.ammarah@nu.edu.pk](mailto:umme.ammarah@nu.edu.pk)) |
| Submission Guidelines | * *Please do the work by yourself, this is an individual assignment.* * *Plagiarism cases will be dealt with strictly.* |

1. Implement Link State routing algorithm (Dijkstra’s Algorithm) in C/C++, Java, or Python. You must also show the forwarding table and MST (Minimum Spanning Tree) obtained from the algorithm.

# (10 marks)

1. Implement CRC (Cyclic Redundancy Check) in C/C++, Java, or Python.

# (10 marks)

1. Implement Polling algorithm in “Taking Turn” MAC Protocols in C/C++, Java, or Python.

# (10 marks)