**SET-3**

**G. H. RAISONI COLLEGE OF ENGG. NAGPUR**

**(An Autonomous Institute & Affiliated to RTM Nagpur University)**

**Department of Computer Science & Engg.**

## Class Assessment Examination –II

## Subject:- Design & Analysis of Algorithms

**Sem. /Branch/Section: V CSE-A/B/C Date of Exam: -28/08/2020**

**Time: - 1 hour Session: 2020-21 Total Marks: - 15**

**Note: All Questions are Compulsory.**

**Q1: Solve the following (5 Marks)**

1. [CO3] Design & implement an algorithm for obtaining LCS of: [5M]

X=<0, 0, 1, 1, 1, 0, 1>

Y=<0, 1, 1, 0, 1, 0, 1>

**Q2: Solve the following. (10 marks)**

1. [CO4] Consider the following 5 jobs and their associated deadline and profit.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Job Index** | **1** | **2** | **3** | **4** | **5** |
| **Job** | J1 | J2 | J3 | J4 | J5 |
| **Deadline** | 2 | 1 | 3 | 2 | 1 |
| **Profit** | 60 | 100 | 20 | 40 | 20 |

Select jobs that will give a higher profit? [5M]

1. [CO5] Obtain graph traversing sequence using Depth First Search (DFS) algorithm for following graph: [5M]

