G H Raisoni College of Commerce, Science and Technology
Department of Science and Technology
SESSION: 2023-24 (ODD Sem)
UNIT TEST- II
Subject: Design and Analysis of Algorithm
BSc II Year - Semester -III

Date : 26.10.2023

Time: 1Hrs

Max Marks: 20

Course Outcomes (CO's):
(CO1) To apply knowledge of computing and mathematics to algorithm design.
(CO2) To analyse a problem and identify the computing requirements appropriate for its solution
(CO3) To design , implement and evaluate an algorithm to meet desired needs
(CO4) To apply mathematical functions, algorithmic principles and computer science theory to the modelling and design of computer

INSTRUCTIONS TO CANDIDATES
1. All questions are compulsory.
2. Each question carries five marks.

N. B. :— (1) Each question carries 5 marks.

1. What is the time complexity of the Job Sequencing with deadlines using greedy algorithm ?   [5M]

2. What is the optimal merge problem ? Explain with example .   [5M]

3. What is Dijkstra's algorithm in brief ?   [5M]

4. How can the fractional knapsack problem be solved ?   [5M