Practice worksheet | Networks, scheduling and assignment

Checking assumptions and interpreting recommendations

Name: _____ Date: _____

6 questions | 16 marks

1. The technician minimum is $9. Write a recommendation that includes the pairings and one assumption. [3 marks]

Cost ($) of assigning one technician to each job.

Technician	Job 1	Job 2	Job 3
Ali	9	2	7
Bea	6	4	3
Chen	5	8	1

2. Ali cannot do job 2. Find and interpret the new technician optimum. [3 marks]

Cost ($) of assigning one technician to each job.

Technician	Job 1	Job 2	Job 3
Ali	9	2	7
Bea	6	4	3
Chen	5	8	1

3. Why is $1,000 a safe substitute for the forbidden entry in the preceding problem when all other costs are nonnegative and a feasible $14 allocation is known? [3 marks]

4. A manager asks for the 'best assignment' but supplies both times and profits. What must be clarified before optimisation? [2 marks]

5. A project finish moves from 20 to 21 days when an uncertain activity is extended by 3 days. What does this tell you? [3 marks]

6. An optimal assignment leaves one job with a dummy worker. Write the limitation that must accompany the recommendation. [2 marks]