SCHEDULING SEQUENCING OPTIONS

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Practice Exercise

1. Which is the sequencing method where jobs are processed in the order in which they arrive at a machine or work center.

A. First in first out   B. Shortest Processing Time   C. Earliest Due date   D. Manual Prioritisation

2. Which sequencing options probably seems "fairest" to the customers?

A. First In First Out (FIFO)   B. Shortest Processing Time (SPT)   C. Earliest Due date (EDD)   D. Manual Prioritisation

3. Use the SPT (Shortest Processing Time) sequencing rule to sequence the following jobs.

Job	Work time required (days)
A	19
B	10
C	12
D	7
E	6

    A.)   E, D, B, C, A   B.)   A, C, B, D, E   C.)   D, E, A, B, C   D.)   A, B, C, D, E

4. Use the EDD (Earliest Due date) sequencing rule to sequence the following jobs.

Job	Due date (days from now)
A	20
B	25
C	30
D	8
E	12

    A.)   E, D, B, C, A   B.)   A, C, B, D, E   C.)   D, E, A, B, C   D.)   A, B, C, D, E

5. Match the following sequencing objectives to their corresponding sequencing options.

SEQUENCING OBJECTIVE		SEQUENCING METHOD
A. Sequence job based on demands of the moment / external pressures / gut feel	●	• First In First Out (FIFO)
B. Minimise number of late jobs.	●	• Earliest Due Date (EDD)
C. Minimise average lateness.	●	• Modified Due Date (MDD)
D. Minimise maximum lateness	●	• Manual Prioritisation
E. Simplicity	●	• Moore's Algorithm
G. Minimise average completion time	●	• Shortest Processing Time (SPT)

ROWTONS TRAINING