

Unit 13 - Week 12

Course outline

How does an NPTEL online course work?

Week 1

Week2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

Manufacturing Operations Scheduling-I (Scheduling & Gantt Charts)

Manufacturing Operations Scheduling-II (Order Sequencing)

JIT and Lean Operations

Work Method Analysis, Work Measurement and Learning Curve

Some Latest and Future Issues

Quiz : Assignment 12

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Assignment 12

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) All of the following are critical to JIT production except

1 point

- steady production
 flexible resources
 extremely high quality
 all of the above are critical to JIT

No, the answer is incorrect. Score: 0

Accepted Answers: *all of the above are critical to JIT*

2) All of the following conditions during the 1950s helped Japan move toward JIT production except

1 point

- shortage of capital
 lack of storage space
 high levels of demand
 lack of abundant natural resources

No, the answer is incorrect. Score: 0

Accepted Answers: *high levels of demand*

3) JIT does not include which one of the following?

1 point

- Fast Throughput manufacturing
 Lean manufacturing
 Batch sizes of one
 High inventory production

No, the answer is incorrect. Score: 0

Accepted Answers: *High inventory production*

4) If no particular heuristic sequencing rule has been specified, the default sequence is

1 point

- DDATE
 SLACK
 FCFS
 CR

No, the answer is incorrect. Score: 0

Accepted Answers: *FCFS*

5) Which of the following statements concerning the assignment method of allocation is true?

1 point

- The assignment method can be used for minimizing costs but not for maximizing profits.
 The assignment method does not guarantee optimality in minimizing a maximum value.
 An optimal solution is reached when the number of columns is equal to the number of rows in the matrix.
 When the allocation minimizes the sum of assignment values, it is referred to a "bottleneck" problem.

No, the answer is incorrect. Score: 0

Accepted Answers: *The assignment method does not guarantee optimality in minimizing a maximum value.*

6) Please refer following table:

1 point

Job	Machine				
	A	B	C	D	E
1	7	4	2	4	14
2	10	8	5	3	15
3	5	2	2	3	10
4	4	6	3	6	10
5	6	13	12	13	4

Given the data in Table, determine how the jobs should be assigned to the machines most efficiently, using the Assignment Method. The time for each job to be completed at each machine is in hours. Which of the following statements is true?

- The optimal assignment plan will take a total of 19 hours to complete.
 The optimal assignment will include assigning Job 3 to Machine Center C.
 The optimal assignment will include assigning Job 4 to Machine Center A.
 The optimal assignment will include assigning Job 2 to Machine Center E.

No, the answer is incorrect. Score: 0

Accepted Answers: *The optimal assignment will include assigning Job 4 to Machine Center A.*

7) In using the CR heuristic sequencing rule, if $CR > 1$ then

1 point

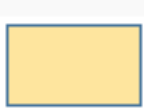



- the work remaining is greater than the time remaining
 the job is behind schedule
 the job is exactly on schedule
 the job is ahead of schedule

No, the answer is incorrect. Score: 0

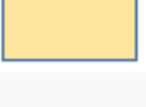
Accepted Answers: *the job is ahead of schedule*

8) Which of the following symbol is used in process flow charts for showing inspection?

1 point

- 
 
 
 

No, the answer is incorrect. Score: 0

Accepted Answers: 

9) Which of the is not a time measurement for developing standard time?

1 point

- Most Likely time
 Observed time
 Normal time
 None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: *Most Likely time*

10) Which of the following will be important challenges for manufacturing in coming times?

1 point

- Mass customization
 Adoption of technology
 Environmental concern
 All of the above

No, the answer is incorrect. Score: 0

Accepted Answers: *All of the above*