

## Unit 5 - Lectures for week-2

### Course outline

#### How to access the portal?

#### Zero Assignment

#### Lectures for week-1

#### Lectures for week-2

Lecture – 6 : Vibratory Bowl Feeder

Lecture – 7 : Analysis of Vibratory Bowl Feeder

Lecture – 8 : Reciprocating Tube Hopper Feeder

Lecture – 9 : Centreboard Hopper Feeder and its analysis

Lecture – 10 : Reciprocating fork and External Gate Hopper Feeders

**Quiz : Assignment -02**

Assignment-02 Solution

Feedback for Week 2

#### Lectures for week-3

#### Lectures for week-4

#### Live Session

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## Assignment -02

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

**Due on 2019-08-21, 23:59 IST.**

1) Average production time is greater than the ideal cycle time in a flow line by 1 point

- average downtime per cycle
- idle time
- average cycle time
- none. Average production time is the same as the ideal cycle time

No, the answer is incorrect.

Score: 0

Accepted Answers:

*average downtime per cycle*

2) Proportion of downtime and the line efficiency must add to 1 point

- zero
- two
- one
- a negative value

No, the answer is incorrect.

Score: 0

Accepted Answers:

*one*

3) Line efficiency indicates 1 point

- the percentage of time the line is down
- the capability of the line to produce defect-free units
- the percentage of time the line is under exploitation
- the percentage of time the line is up

No, the answer is incorrect.

Score: 0

Accepted Answers:

*the percentage of time the line is up*

4) In an automated assembly flow line, it takes 10 sec. to complete an assembly. The line breakdown occurs twice in every 100 cycles and it takes 5 minutes to diagnose the problem and re-run the line. The proportion of downtime is 1 point

- 37.5%
- 92.5%
- 75%
- 62.5%

No, the answer is incorrect.

Score: 0

Accepted Answers:

*37.5%*

5) In an automated flow line, the ideal cycle time is 20 sec. It takes 10 minutes to diagnose the problem when a breakdown occurs and the line breakdown occurs once in every 100 cycles. Average production time in the line is 1 point

- 0.038 sec
- 26 sec
- 20.1 sec
- 0.049 sec

No, the answer is incorrect.

Score: 0

Accepted Answers:

*26 sec*

6) Select the correct statement 1 point

- production time is less than the throughput time
- production time is more than the throughput time
- production time is the same as the throughput time
- production time is not related to throughput time

No, the answer is incorrect.

Score: 0

Accepted Answers:

*production time is less than the throughput time*

7) When a dial indexing assembly machine is driven by a Geneva mechanism, 1 point

- the value of the production rate is twice more than the value of the driver RPM of the Geneva mechanism
- the value of the production rate is twice less than the value of the driver RPM of the Geneva mechanism
- the value of the production rate is the same as the value of the driver RPM of the Geneva mechanism
- the value of the production rate is thrice more than the value of the driver RPM of the Geneva mechanism

No, the answer is incorrect.

Score: 0

Accepted Answers:

*the value of the production rate is the same as the value of the driver RPM of the Geneva mechanism*

8) Choice of an assembly method is based on 1 point

- cost of assembly
- required production rate
- market life of the product
- all of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

*all of the above*

9) The amount of assembly required can be reduced by 1 point

- using modular design
- combining functions
- limiting the required direction of access
- using modular design and combining functions

No, the answer is incorrect.

Score: 0

Accepted Answers:

*combining functions*

10) The power required to drive an indexing unit will be obtained from 1 point

- the dynamic torque applied to the unit during the machine index
- the static torque applied to the unit during the machine index
- the force applied to the unit by the process
- torque produced at the unit

No, the answer is incorrect.

Score: 0

Accepted Answers:

*the dynamic torque applied to the unit during the machine index*