

Unit 2 - Week 0

Course outline
How does an NPTEL online course work?
Week 0
<div>○ Quiz : Assignment 0</div>
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Download Videos
Assignment Solution
Live Interactive Session

Assignment 0

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

Due on 2020-09-14, 23:59 IST.

- 1)

Which of the following materials has highest thermal conductivity?

a) Stainless steel
b) Aluminum
c) Copper
d) Carbon steel

☐

a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

1 point
- 2)

You have to construct a pressure vessel. Which of the following will be the costliest material of construction?

a) Low alloy steel
b) Lead
c) Titanium
d) High alloy steel

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a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

1 point
- 3)

In Heat Exchangers, 25% cut segmental baffle means that the baffle

a) Height is 75% of the inside diameter of the shell
b) Height is 25% of the inside diameter of the shell
c) Spacing is 75% of its height
d) Width is 25% of its height

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a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

1 point
- 4)

Payback period is the length of time over which the earnings on a project equals the investment.

(a) True
(b) False

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a)

☐

b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

1 point
- 5)

Depreciation of a piece of equipment refers to the loss in value of the piece of equipment with time due to wear, tear, corrosion, etc.

(a) True
(b) False

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a)

☐

b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

1 point
- 6)

Corrosion problems are more likely to occur in a pump which is working continuously compared to the one working intermittently in the same environment.

(a) True
(b) False

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a)

☐

b)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

1 point
- 7)

Select the correct option.

I. The economic pipe size minimizes the sum of pipe and pumping costs.
II. Increase in pipe diameter leads to increase in capital cost and decrease in operating cost.

(a) Only Statement-I is true
(b) Only Statement-II is true
(c) Both the statements are true
(d) Both the statements are false

☐

a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

1 point
- 8)

Select the correct option about the usual practice for design of Shell and Tube Heat Exchanger.

I. The more corrosive fluid should be allocated to the tube side.
II. The more viscous fluid should be allocated to the shell side for improved heat transfer coefficient.

(a) Only Statement-I is true
(b) Only Statement-II is true
(c) Both the statements are true
(d) Both the statements are false

☐

a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

1 point
- 9)

Weeping in a distillation column
(a) Improves tray efficiency
(b) Occurs due to very low gas velocity
(c) Occurs due to very high gas velocity
(d) Occurs due to small liquid hold-up on the tray

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a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

1 point
- 10)

In an ideal tubular flow reactor

(a) Mixing takes place only in longitudinal direction
(b) Mixing takes place only in radial direction
(c) No mixing takes place in radial direction
(d) Mixing takes place in both longitudinal and radial directions

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a)

☐

b)

☐

c)

☐

d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

1 point