

Course outline

How does an NPTEL online course work?

Week 0

 Quiz: Week 0 : Assignment 0

Week 1

Week 2

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Week 0 : Assignment 0

The due date for submitting this assignment has passed.

Due on 2021-07-26, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which one of the following units is incorrect in the SI system?

2 points

- (a) $\text{kg}\cdot\text{m}\cdot\text{s}^{-2}$
- (b) $\text{kg}\cdot\text{m}\cdot\text{s}^{-2}$
- (c) $\text{kg}\cdot\text{cm}\cdot\text{s}^{-2}$
- (d) $\text{kg}\cdot\text{m}^2\cdot\text{s}^{-2}$

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

c)

2) Choose the correct answer. 1 joule =

2 points

- (a) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^{-2}$
- (b) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^{-2}$
- (c) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^2$
- (d) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^2$

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

3) Choose the correct answer. 1 watt =

2 points

- (a) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^{-3}$
- (b) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^3$
- (c) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^{-3}$
- (d) $1\text{ kg}\cdot\text{m}^2\cdot\text{s}^{-3}$

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

d)

4) Choose the correct answer. 1 cal =

2 points

- (a) 4.184 N
- (b) 1 dyne-cm
- (c) 4.184 J
- (d) 1 N-m

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

c)

5) Choose the correct answer. 1 lb mol composed of

2 points

- (a) 6.022×10^{23} molecules
- (b) $6.022 \times 10^{23} \times 453.6$ molecules
- (c) $6.022 \times 10^{23} \times 2.2$ molecules

- a)
- b)
- c)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

6) A thermodynamically "closed" system:

2 points

- (a) Must be insulated
- (b) May be insulated
- (c) Never be insulated
- (d) None of the above

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

7) Upon increasing pressure, the melting point of Ice:

2 points

- (a) Remains Un-altered
- (b) Increases
- (c) Decreases
- (d) None of the above

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

c)

8) A volatile liquid has:

2 points

- (a) Low melting point
- (b) High boiling point
- (c) Low vapor pressure
- (d) High vapor pressure

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

d)

9) You have two liquids L1 and L2. Hydrogen bonds are present in L1 and absent in L2. Which of the following statements is True?

2 points

- (a) Liquid L2 will have higher boiling point
- (b) Liquid L2 will have higher vapor pressure
- (c) Liquid L2 will have higher surface tension
- (d) All of the above

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b)

 10) The Specific Heat Capacity (C_p) of humid air will be:

2 points

- (a) Same as dry air
- (b) Lower than dry air
- (c) Higher than dry air
- (d) None of the above

- a)
- b)
- c)
- d)

No, the answer is incorrect.

Score: 0

Accepted Answers:

c)