Week-11 assignment-1

The due date for submitting this assignment has passed. **Due on 2018-04-11, 23:59 IST.**

Submitted assignment

**Week-11 assignment-1**

**Answer all the Questions**

1) In chromatography, the stationary phase can be __________ supported on a solid  
- Solid or liquid
- Liquid or gas
- Solid only
- Liquid only

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Solid or liquid

2) In chromatography, the mobile phase can be  
- Solid or liquid
- Liquid or gas
- Gas only
- Liquid only

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
Liquid or gas

3) Which of the following is not an example of adsorbent in column adsorption chromatography?  
- Magnesium oxide
- Silica gel

1 point
Potassium permanganate

4) Beer Lambert's law gives the relation between

- Reflected radiation and concentration
- Scattered radiation and concentration
- Energy absorption and concentration
- Energy absorption and reflected radiation

No, the answer is incorrect.
Score: 0
Accepted Answers:
Energy absorption and concentration

5) How is absorption related to transmittance?

- Absorption is the logarithm of transmittance
- Absorption is the reciprocal of transmittance
- Absorption is the negative logarithm of transmittance
- Absorption is a multiple of transmittance

No, the answer is incorrect.
Score: 0
Accepted Answers:
Absorption is the negative logarithm of transmittance

6) Which of the following is the unit of molar absorptivity?

- $Lmol^{-1}cm^{-1}$
- $Lcm^{-1}$
- $Cm$
- no unit

No, the answer is incorrect.
Score: 0
Accepted Answers:
$Lmol^{-1}cm^{-1}$

7) Which of the following gas can be used as a carrier gas in chromatography?

- Oxygen
- Nitrogen
- Carbon dioxide
- Methane

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

8) Choose the correct option.

Statement I: The measurement of hydrogen ion concentration can be made by measuring the potential developed in an electrochemical cell.

Statement II: The Nernst Factor or Slope Factor is independent of temperature.
9) How does the viscosity of liquid and gas vary with increase in temperature?

- Both increases
- Both decreases
- For liquid increases and for gas decreases
- For liquid decreases and gas increases

No, the answer is incorrect.
Score: 0
Accepted Answers:
For liquid decreases and gas increases

10) Choose the correct option.

Statement I: If shear stress is inversely proportional to velocity gradient, fluid is called as a Newtonian fluid.
Statement II: Kerosene is an example of a Newtonian fluid.

- Only I is true
- Only II is true
- Both I and II are true
- Both I and II are false

No, the answer is incorrect.
Score: 0
Accepted Answers:
Only II is true

11) Choose the correct option.

Statement I: Capillary viscometer assumes that the flow is linear.
Statement II: Stokes formula forms the basis for falling-ball viscometer.

- Only I is true
- Only II is true
- Both I and II are true
- Both I and II are false

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both I and II are true

12) Double-bubbler method of measuring density is more desirable than single bubbler method of density measurement.

- Only I is true
- Only II is true
- Both I and II are true
- Both I and II are false

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both I and II are true
True

No, the answer is incorrect.
Score: 0

Accepted Answers:
True