Unit 1 - How to access the portal

Assignment 0

The due date for submitting this assignment has passed. Due on 2018-01-31, 23:59 IST.

Submitted assignment

1) The order of a chemical reaction is a
   - Theoretical parameter
   - Experimental parameter
   - Both experimental and theoretical parameter
   - none of the above

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

2) The role of biocatalyst is
   - To accelerate the rate of reaction by increasing the activation energy
   - To accelerate the rate of reaction by decreasing the activation energy
   - The enzyme concentration changes after the reaction
   - The enzyme concentration remains un-altered after the reaction

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   To accelerate the rate of reaction by decreasing the activation energy
   The enzyme concentration remains un-altered after the reaction

3) Examples of unicellular organism are
   - Bacteria
   - Fungi

   1 point
4) If price of wheat be raised by 30 %, then by how much per cent a householder must reduce his consumption of the article so as not to increase his expenditure

- 23 1/3 %
- 25 1/6 %
- 39 %
- 42.8 %

No, the answer is incorrect.
Score: 0
Accepted Answers:
23 1/3 %

5) \( \int e^{ax} dx = \)\( a \)

- \( e^{ax} + C \)
- \( ae^{ax} + C \)
- \( \frac{e^{ax}}{a} + C \)
- \( \frac{1}{ae^{ax}} + C \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\( \frac{e^{ax}}{a} + C \)

6) The general formula for carbohydrate is

- \((\text{CH}_2\text{O})_n\)
- \((\text{CH}_2\text{O})_{2n}\)
- \((\text{CHO})_n\)
- \(\text{C}_n(\text{OH})_n\)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\((\text{CH}_2\text{O})_n\)

7) What is the H\(^+\) concentration in pure water?

- \(10^{-14}\)
- \(10^7\)
- \(10^{-7}\)
- \(10^{14}\)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\(10^{-7}\)

8) The SI unit for viscosity is

- kg.m\(^{-1}\).s\(^{-1}\)
9) Rate constant of 2nd order chemical reaction is

- kg.m$^{-1}$s$^{-1}$
- s$^{-1}$
- (g/L)$^2$s$^{-2}$
- (g/L)$^{-1}$s$^{-1}$

No, the answer is incorrect.
Score: 0
Accepted Answers:
kg.m$^{-1}$s$^{-1}$

10) \[ \int \frac{dx}{x^n} \]

- \( \frac{x^{1-n}}{1-n} + C \)
- \( \frac{x^{n-1}}{n-1} + C \)
- \( \frac{x^n}{n} + C \)
- \( \frac{x^{1-n}}{-n} + C \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\( \frac{x^{1-n}}{1-n} + C \)

11) Density of air at STP is

- 1.23 kg.m$^{-3}$
- 1.23 kg L$^{-1}$
- 1 g.m$^{-3}$
- 1 kg L$^{-1}$

No, the answer is incorrect.
Score: 0
Accepted Answers:
1.23 kg.m$^{-3}$