AKGECAT ADMIN PANEL

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Subject	Total questions	Answered correctly	Percentage
Physics	4	1	25.0
Chemistry	3	1	33.3333333333333
Maths	3	1	33.3333333333333
Total	10	3	30.0
0			

If the kinetic energy of a free electron doubles, its de Broglie wavelength changes by the factor

2

1/2

 $\sqrt{2}$

 $1/\sqrt{2}$

Correct choice - 1

Q.

Which of the following spectral series of hydrogen atom is lying in visible range of electromagnetic wave?

Lyman series

Balmer series

Paschen series

P-Fund series

Correct choice - 1

Q.

The dimensional formula of Planck's constant is

[MLT]

 $[ML^2T^{-1}]$

 $[M^2L^2T^{-1}]$

[ML¹T⁻¹]

Correct choice - 1

Q.
If the kinetic energy of a free electron doubles, its de Broglie wavelength changes by the factor
2
2
1/2
-
$\sqrt{2}$
$1/\sqrt{2}$
Correct choice - 2 Q.
Which one of the following statements is not true regarding (+) Lactose?
(I) Lectore C. H. O. contains 9 OH groups
(+) Lactose, C ₁₂ H ₂₂ O ₁₁ contains 8-OH groups
On hydrolysis (+) Lactose gives equal amount of D(+) glucose and D(+) galactose
(+) Lactose is a b-glycoside formed by the union of a molecule of D(+) glucose and a molecule of D(+) galactose
(+) Lactose is reducing sugar and does not exhibit mutarotation
Correct choice - 1
Q.
Which one of the following statements is true'?
Drying of oil involves hydrolysis
Saponification of oil yields a diol.
Refining of oil involves hydrogenation
Addition of antioxidant to oil minimizes rancidity.
Correct choice - 1
Q. IUPAC name of (CH ₃) ₃ CCI
101 AC Hame of (011 ₃) ₃ 001
2 chloro 2 methyl propane

t-butyl chloride

n-butyl chloride

3-chloro butane

Correct choice - 1

Q.

The equation of normal to the curve $y=x^2+4x+1$ at the point where x=3 is

$$10x - y = 8$$

$$10x+y+8=0$$

h

$$x+10y=223$$

None of these

Correct choice - 1

Q.

If
$$A = \begin{bmatrix} 1 & 0 & 2 \\ -1 & 2 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$
 and $B = \begin{bmatrix} 0 & 0 & 2 \\ 1 & 0 & -1 \\ 0 & 2 & 1 \end{bmatrix}$, the value of $AB - I_3$, is

$$\begin{bmatrix} 0 & 4 & 4 \\ 2 & 0 & -4 \\ 0 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} -1 & 4 & 4 \\ 2 & -1 & -4 \\ 0 & 2 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 0 & 4 \\ 0 & 1 & -1 \\ 0 & 2 & 1 \end{bmatrix}$$

None of these

Correct choice - 1

Q.

If
$$y=x^3+2\sin x+\sin^{-1}x+xe^x$$
, value of $\frac{dy}{dx}$ at x=0 is

2

4

3

None of these

Correct choice - 1