10:54 PM
vulms.vu.edu.pk/(

Question # 10 of 10 (Start time: 10:53:27 PM, 05 July 2024)

A particle having 2e charge falls through a potential difference of 5 V. energy acquired by it is

Select the correct option

- ○ 2.5 eV
- ● 10 eV
- ○ 20 eV
- ○ 0.4 eV

Clic

10:53 PM
vulms.vu.edu.pk/(

Question # 9 of 10 (Start time: 10:52:57 PM, 05 July 2024)

In special relativity, what is the term for the minimum energy an object possesses at rest?

Select the correct option

- ( ) Total energy
- (•) Rest mass energy
- ( ) Kinetic energy
- ( ) Potential energy

Click t

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 8 of 10 (Start time: 10:52:22 PM, 05 July 2024)

Which of the following is true of all virtual images?

Select the correct option

- ○ They can be seen but not photographed
- ● None of these
- ○ They are larger than the objects
- ○ They are smaller than the objects

If 2.5 calories of heat are used to lift a weight, how much mechanical work is done, assuming all the heat is converted into work? (Hint: 1 cal = 4.186 Joule)

Select the correct option

Reload Math Equations

- ( ) 5.6 J
- (•) 10.46 J
- ( ) 9.14 J
- ( ) 8.36 J

Click to Save Answer & Move to Next Question

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 6 of 10 (Start time: 10:50:53 PM, 05 July 2024)

$2d\sin\theta = m\lambda$ is called:

Select the correct option

○	Laplace's equation
○	Refraction equation
○	Reflection equation
◉	Bragg equation

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 5 of 10 (Start time: 10:50:09 PM, 05 July 2024)

In everyday life the effect of diffraction is more significant for sound than for light because that:

Select the correct option

●	Light has a much longer wavelength than sound.
○	Insufficient Information.
○	Light has a much shorter frequency than sound.
○	Light has a much shorter wavelength than sound.

Clic

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 4 of 10 (Start time: 10:49:25 PM, 05 July 2024)

When some dielectric is inserted between the plates of a capacitor, then capacitance:

Select the correct option

○	Decreased
○	Zero
◉	Increased
○	Infinity

Click t

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 3 of 10 (Start time: 10:48:49 PM, 05 July 2024)

In which medium does light travel the fastest?

Select the correct option

- ○ Air
- ○ Water
- ◉ Vacuum
- ○ Glass

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 2 of 10 (Start time: 10:47:55 PM, 05 July 2024)

What is the unit of charge distribution for linear density?

Select the correct option

●	Coulomb / length
○	Coulomb / length^2
○	Length/ Farad
○	length / Coulomb

PHY101 - Physics (5th online quiz Physics (PHY101))

Question # 1 of 10 (Start time: 10:47:21 PM, 05 July 2024)

The focal length of convex lens is:

Select the correct option

●	Positive
○	Negative
○	Small
○	Large

Y101 - Physics (4th online quiz Physics (PHY101)) Quiz St

estion # 10 of 10 (Start time: 01:29:59 AM, 28 June 2024)

What is the relationship between the electric field and charges on a perfect electric conductor's surface?

ect the correct option

- Electric field is normal to the surface and proportional to charge density
- Electric field is proportional to charge density
- Electric field is discontinuous and inversely proportional to charge density
- Electric field is always zero

Click to Save An

1:29 AM
vulms.vu.edu.pk/

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 9 of 10 (Start time: 01:29:02 AM, 28 June 2024)

Magnetic flux (Φ_B) is defined as:

Select the correct option

●	The quantity of magnetic field passing through a surface
○	The strength of a magnet
○	The ability of a material to conduct magnetic lines
○	The measure of magnetic pole strength

1:28 AM
vulms.vu.edu.pk/

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 8 of 10 (Start time: 01:28:33 AM, 28 June 2024)

Which electromagnetic radiation transmits the highest photon energy?

Select the correct option

- (●) Gamma rays
- ( ) Microwaves
- ( ) Ultraviolet radiations
- ( ) Infrared rays

1:28 AM

vulms.vu.edu.pk/(

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 7 of 10 (Start time: 01:28:03 AM, 28 June 20

Potentiometer can be used as

Select the correct option

- ○ Ammeter
- ○ Ohm meter
- ○ Galvanometer
- ◉ Potential divider

1:28 AM
Vo WiFi 4G Vo WiFi 4G 35.4 K/S 94
vulms.vu.edu.pk/(

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 6 of 10 (Start time: 01:27:25 AM, 28 June 2024)

What is the electric field direction at a point on the axial line of an electric dipole?

Select the correct option

- ○ Toward the negative charge
- ○ Opposite to the dipole moment direction
- ● Along the line from negative to positive
- ○ Toward the positive charge

1:27 AM

vulms.vu.edu.pk/(

PHY101 - Physics (4th online quiz Physics (PHY101))

Quiz Star

Question # 5 of 10 (Start time: 01:26:51 AM, 28 June 2024)

Which physical quantity is produced by a calculation where a charge is multiplied by a potential difference (p.d)?

Select the correct option

- ○ Current
- ○ power
- ○ e.m.f
- ◉ Energy

Click to Save Answ

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 4 of 10 (Start time: 01:26:20 AM, 28 June 2024)

The sum of electric and magnetic force is called.

Select the correct option

- ○ Centripetal force
- ◉ Lorentz force
- ○ Maxwell force
- ○ Newton's force

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 3 of 10 (Start time: 01:25:48 AM, 28 June 2024)

In the equation $J = n \cdot e \cdot v_d$, what does n represent?

Select the correct option

○	Drift velocity
○	Total number of charge carriers
○	Negative charge
●	Number density of charge carriers

1:25 AM
vulms.vu.edu.pk/

PHY101 - Physics (4th online quiz Physics (PHY101))

Question # 2 of 10 (Start time: 01:24:58 AM, 28 June 2024)

If an electron of charge is accelerated through a potential difference V, it will acquire energy

Select the correct option

- ○ E/2
- ◉ Ve
- ○ V/2
- ○ 2V

Click to

Question # 1 of 10 (Start time: 01:23:46 AM, 28 June 2024)

Total Marks: 1

An LC series circuit with an inductance L and a capacitance C has an oscillation frequency f. Two inductors, each with inductance L, and two capacitors, each with capacitance C, are all wired in series and the circuit is completed. The oscillation frequency is:

Select the correct option

- ○ f
- ◉ f/2
- ○ 2f
- ○ f/4