

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 1 of 10 (Start time: 05:57:54 PM, 07 March 2022)

The two metallic strips that constitute some thermostats must differ in:

Select the correct option

- ☐ Thickness
- ☐ Length
- ☐ Coefficient of linear expansion
- ☐ Mass
- ☐ Rate at which they conduct heat



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Question # 1 of 10 (Start time: 05:57:54 PM, 07 March 2022)

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Select the correct option

- | | |
|-----------------------|---------------------------------|
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PHY101:4th online quiz of Physics (PHY101)

Question # 3 of 10 (Start time: 06:00:34 PM, 07 March 2022)

If the kinetic energy of a free particle is much less than its rest energy then its kinetic energy is proportional to:

Select the correct option

- | | |
|-----------------------|--|
| ☐ | The magnitude of its momentum |
| ☐ | The square of the magnitude of its momentum |
| ☐ | The square root of the magnitude of its momentum |
| ☐ | The magnitude of its momentum |
| ☐ | The reciprocal of the magnitude of its momentum |



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Question # 4 of 10 (Start time: 06:01:38 PM, 07 March 2022)

A detector is used to detect the speed of a particular wave. If the frequency of an electromagnetic signal is 400 MHz, the speed detected by detector is _____

Select the correct option

- ☐ 300000 m/h
- ☐ 300000 km/s
- ☐ 300000 mm/s
- ☐ 300000 m/min



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PHY101:4th online quiz of Physics (PHY101)

Question # 5 of 10 (Start time: 06:03:04 PM, 07 March 2022)

Average value of current and voltage over complete cycle is:

Select the correct option

Negative



Positive



Zero



Infinite



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07/03/2022 09:04:29 PM, 07 March 2022)

The quantity $\Delta V/\Delta r$ is called.

Select the correct option

Potential barrier



Potential gradient



Electric potential



Electric energy



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PHY101:4th online quiz of Physics (PHY101)

Question # 7 of 10 (Start time: 06:05:59 PM, 07 March 2022)

If two objects are in thermal equilibrium with each other.

Select the correct option

☐

they cannot have different pressures

☐

they cannot be undergoing an elastic collision

☐

they cannot be at different temperatures

☐

they cannot be moving



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PHY101:4th online quiz of Physics (PHY101)

Question # 8 of 10 (Start time: 06:07:19 PM, 07 March 2022)

A consequence of Einstein's theory of relativity is:

Select the correct option

☐

Moving clocks run more slowly than when they are at rest

☐

Light has both wave and particle properties

☐

Every thing is relative

☐

Moving rods are longer than when they are at rest



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PHY101:4th online quiz of Physics (PHY101)

Question # 10 of 10 (Start time: 06:10:15 PM, 07 March 2022)

Capacitive reactance X_c is:

Select the correct option

☐	2nfC
☐	$1/4\text{nfC}$
☐	4nfC
☐	$1/2\text{nfC}$

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PHY101:4th online quiz of Physics (PHY101)

Question # 9 of 10 (Start time: 06:08:47 PM, 07 March 2022)

In order that a single process is both isothermal and isobaric:

Select the correct option

☐

One must use an ideal gas

☐

One must use a solid

☐

One may use any real gas such as N_2

☐

A change of phase is essential



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Question # 1 of 10 (Start time: 06:41:58 PM, 07 March 2022)

The specific heat of a substance is:

Select the correct option

- | | |
|----------------------------------|--|
| ☒ | The amount of heat energy per unit mass to raise the temperature of the substance by 1°C |
| ☐ | The amount of heat energy to change the state of one gram of the substance |
| ☐ | The amount of heat energy per unit mass emitted by oxidizing the substance |
| ☐ | The amount of heat energy per unit mass to raise the substance from its freezing to its boiling point |



Click to S

Question # 2 of 10 (Start time: 06:43:56 PM, 07 March 2022)

The electron states that constitute a single shell for an atom all have:

Select the correct option

- | | |
|-----------------------|---|
| ☐ | the same value of l and the same value of m_l |
| ☐ | the same value of n |
| ☐ | the same value of n and the same value of L |
| ☐ | the same value of L |



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Question # 3 of 10 (Start time: 06:44:59 PM, 07 March 2022)

In a photoelectric effect experiment at a frequency above cut off, the number of electrons ejected is proportional to

Select the correct option

- | | |
|-----------------------|---|
| ☐ | The work function |
| ☐ | The number of photons that hit the sample |
| ☐ | Their kinetic energy |
| ☐ | Their potential energy |



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Question # 4 of 10 (Start time: 06:46:23 PM, 07 March 2022)

An isothermal process for an ideal gas is represented on a p-V diagram by:

Select the correct option

☐	A portion of an ellipse
☐	A portion of a hyperbola
☐	A portion of a parabola
☐	A horizontal line



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Question # 5 of 10 (Start time: 06:47:09 PM, 07 March 2022)

The concept of an electric field lines is introduced by:

Select the correct option

☐	Einstein
☐	Coulomb
☐	Joseph Henry
☐	Faraday



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Question # 6 of 10 (Start time: 06:48:07 PM, 07 March 2022)

An electron ($m=9.11 \times 10^{-31} \text{ kg}$) has a momentum of $4.0 \times 10^{-22} \text{ kg} \cdot \text{m/s}$. Its kinetic energy is:

Select the correct option

☐ $1.5 \times 10^{-13} \text{ J}$

☐ $6.3 \times 10^{-14} \text{ J}$

☐ $1.2 \times 10^{-13} \text{ J}$

☐ $8.2 \times 10^{-14} \text{ J}$

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Question # 7 of 10 (Start time: 06:49:22 PM, 07 March 2022)

The current in a car headlamp is 2.0 A. The headlamp is switched on for 3.0 minutes. How much charge passes through the headlamp?

Select the correct option

☐	360 C
☐	90 C
☐	4.0 C
☐	2.0 C



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Question # 8 of 10 (Start time: 06:50:41 PM, 07 March 2022)

Total Marks: 1

In some movies, you sometimes see an actor looking in a mirror and you can see his face in the mirror. During the filming of this scene, what does the actor see in the mirror?

Select the correct option

- | | |
|-----------------------|---------------------|
| ☐ | Your face |
| ☐ | The movie camera |
| ☐ | His face |
| ☐ | The director's face |



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Click on Time Answer & Move to Next Question

BC210416540: SAWAIRA

PHY101:4th online quiz of Physics (PHY101)

Question # 9 of 10 (Start time: 06:52:04 PM, 07 March 2022)

The Pauli exclusion principle is obeyed by:

Select the correct option

☐	all particles with spin quantum numbers of $1/2$
☐	all particles with spin quantum numbers of 1
☐	all particles
☐	all charged particles



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PHY101:4th online quiz of Physics (PHY101)

Question # 10 of 10 (Start time: 06:53:43 PM, 07 March 2022)

The focal length of convex lens is:

Select the correct option

☐	Large
☐	Small
☐	Negative
☐	Positive



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