

PHY101(4)

Lecture 25 to 44

RIZ MUGHAL
SQA ENGINEER:

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PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time: 03:18 P

Question # 1 of 10 (Start time: 03:18:43 PM, 20 February 2021)

If velocity of a conductor moving through a magnetic field B is made zero then motional emf is:

Select the correct option

- ○ -vBL
- ○ -v/LB
- ○ -BL/v
- ◉ Zero

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Question # 2 of 10 (Start time: 03:18:59 PM, 20 February 2021)

Which one of the following is the velocity of a carrier wave?

Select the correct option

- ○ 3 × 10^6 ms-1
- ◉ 3 × 10^8 ms-1
- ○ 3 × 10^9 ms-1
- ○ 3 × 10^10 ms-1

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Question # 3 of 10 (Start time: 03:19:13 PM, 20 February 2021)

If light of low wavelength is used in young's double slit experiment, then width of the fringe will:

Select the correct option

- (●) Decrease
- ( ) Increase
- ( ) No change
- ( ) Double

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Question # 4 of 10 (Start time: 03:19:25 PM, 20 February 2021)

One Tesla is equal to

Select the correct option

- N A m
- N /A m
- N /Am
- N A/m

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Question # 5 of 10 (Start time: 03:19:39 PM, 20 February 2021)

Polarization experiments provide evidence that light is:

Select the correct option

- ○ a longitudinal wave
- ◉ a transverse wave
- ○ some type of wave
- ○ nearly monochromatic

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Question # 6 of 10 (Start time: 03:19:51 PM, 20 February 2021)

Interference of light is evidence that:

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Select the correct option

- ○ the speed of light is very large
- ○ light is a transverse wave
- ◉ light is a wave phenomenon
- ○ light is electromagnetic in character

PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time

Question # 7 of 10 (Start time: 03:20:04 PM, 20 February 2021)

The two metallic strips that constitute some thermostats must di?er in:

Select the correct option

○	Thickness Length
○	Mass
○	Rate at which they conduct heat
●	Coe?cient of linear expansion

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Question # 8 of 10 (Start time: 03:20:20 PM, 20 February 2021)

When light passes from air to glass, it bends:

Select the correct option

- (●) toward the normal and slows down
- ( ) toward the normal without changing speed
- ( ) toward the normal and speeds up
- ( ) away from the normal and slows down

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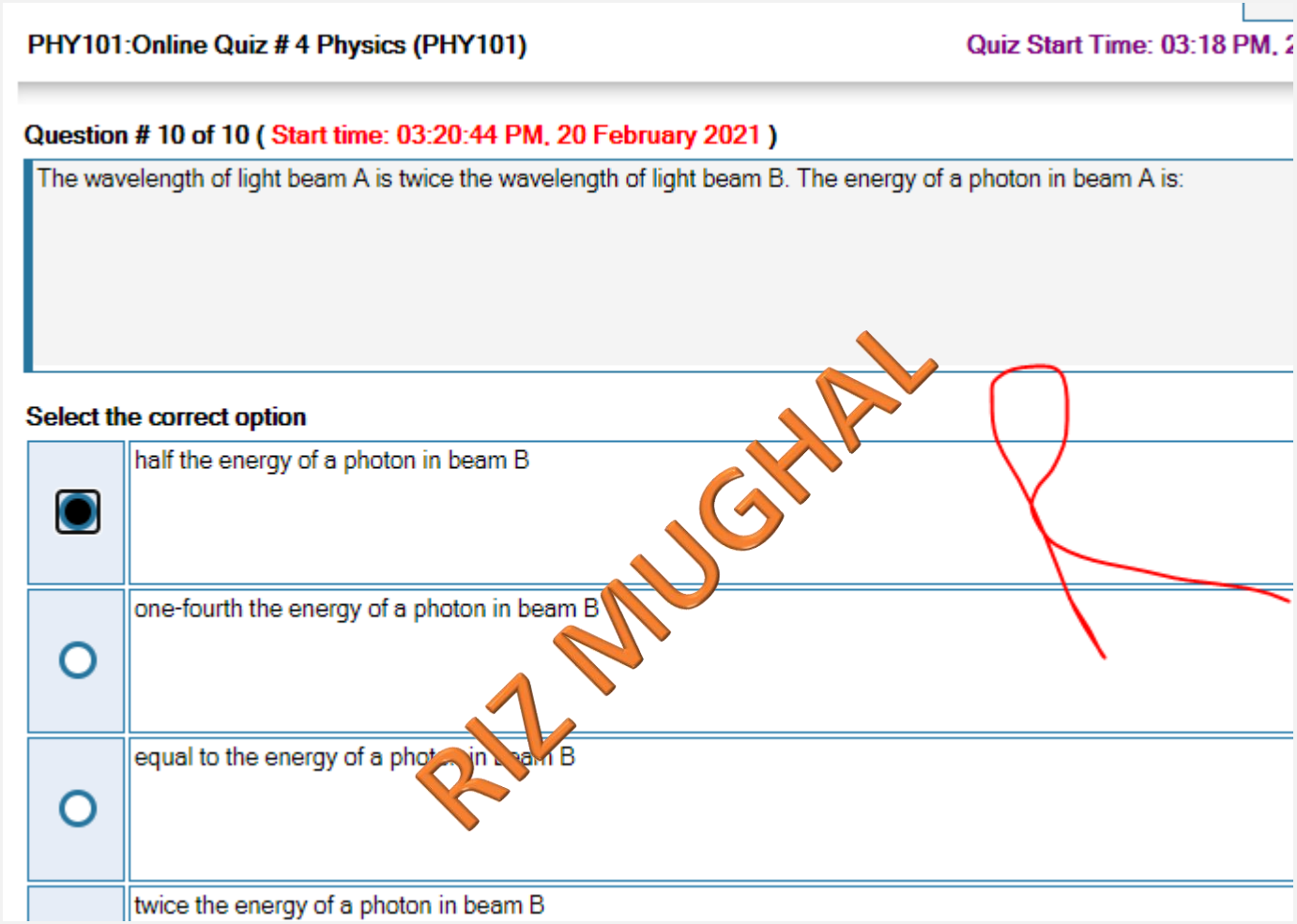
Question # 9 of 10 (Start time: 03:20:32 PM, 20 February 2021)

Electromagnetic waves do not transport:

Select the correct option

- ○ Energy
- ○ Momentum
- ◉ Charge
- ○ Information

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PHY101:Online Quiz # 4 Physics (PHY101)
Quiz Start Time: 03:18 PM, 2
Question # 10 of 10 (Start time: 03:20:44 PM, 20 February 2021)
The wavelength of light beam A is twice the wavelength of light beam B. The energy of a photon in beam A is:
Select the correct option
half the energy of a photon in beam B
one-fourth the energy of a photon in beam B
equal to the energy of a phot in eam B
twice the energy of a photon in beam B
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2nd account

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Quiz Start Time: 03:31 PM, 20 February 2021

Question # 1 of 10 (Start time: 03:31:58 PM, 20 February 2021) **Total Marks:** 1

A particular device transmitted a signal in the form of electromagnetic waves of frequency 7.5 * 108 Hz. What is the wavelength of the signal?

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Select the correct option

- (●) 0.4 m
- ( ) 40 m
- ( ) 4.0 m
- ( ) 4.04 m

PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time: 03:31 PM, 20 Febru

Question # 2 of 10 (Start time: 03:32:30 PM, 20 February 2021) Tota

A basic postulate of Einstein's theory of relativity is:

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Select the correct option

- ○ Moving clocks run more slowly than when they are at rest
- ○ Moving rods are shorter than when they are at rest
- ○ Light has both wave and particle properties
- ◉ The laws of physics must be the same for observers moving with uniform velocity relative to each other

PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time: 03:31 PM, 20 Fe

Question # 3 of 10 (Start time: 03:32:41 PM, 20 February 2021) T

In a photoelectric effect experiment at a frequency above cut off, the stopping potential is proportional to:

Select the correct option

- ○ the energy of the least energetic electron before it is ejected
- ○ the energy of the least energetic electron after it is ejected
- ○ the energy of the most energetic electron before it is ejected
- ◉ the energy of the most energetic electron after it is ejected

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Question # 4 of 10 (Start time: 03:32:56 PM, 20 February 2021)

Which of the following types of electromagnetic radiation travels at the greatest speed in vacuum?

Select the correct option

- ○ Radio waves
- ○ X rays
- ○ Gamma rays
- ◉ All of these travel at the same speed

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Question # 5 of 10 (Start time: 03:33:08 PM, 20 February 2021)

Hotness or coldness of an object is represented in terms of:

Select the correct option

- (●) Temperature
- ( ) Heat
- ( ) Chemical energy
- ( ) Electrical energy

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Question # 6 of 10 (Start time: 03:33:20 PM, 20 February 2021)

Phase difference between V and I of an A.C through resistor is:

Select the correct option

- (●) 0 degree
- ( ) 90 degree
- ( ) 270 degree
- ( ) 180 degree

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Question # 7 of 10 (Start time: 03:33:42 PM, 20 February 2021)

Antiparticle of electron is:

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Select the correct option

- ○ Proton
- ○ Photon
- ○ Neutron
- ◉ Positron

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Question # 8 of 10 (Start time: 03:33:55 PM, 20 February 2021)

The special theory of relativity is applicable to the object moving with maximum velocity equal to:

Select the correct option

- (●) Speed of light
- ( ) More than speed of light
- ( ) Less than speed of light
- ( ) Double the speed of light

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PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time: 03:

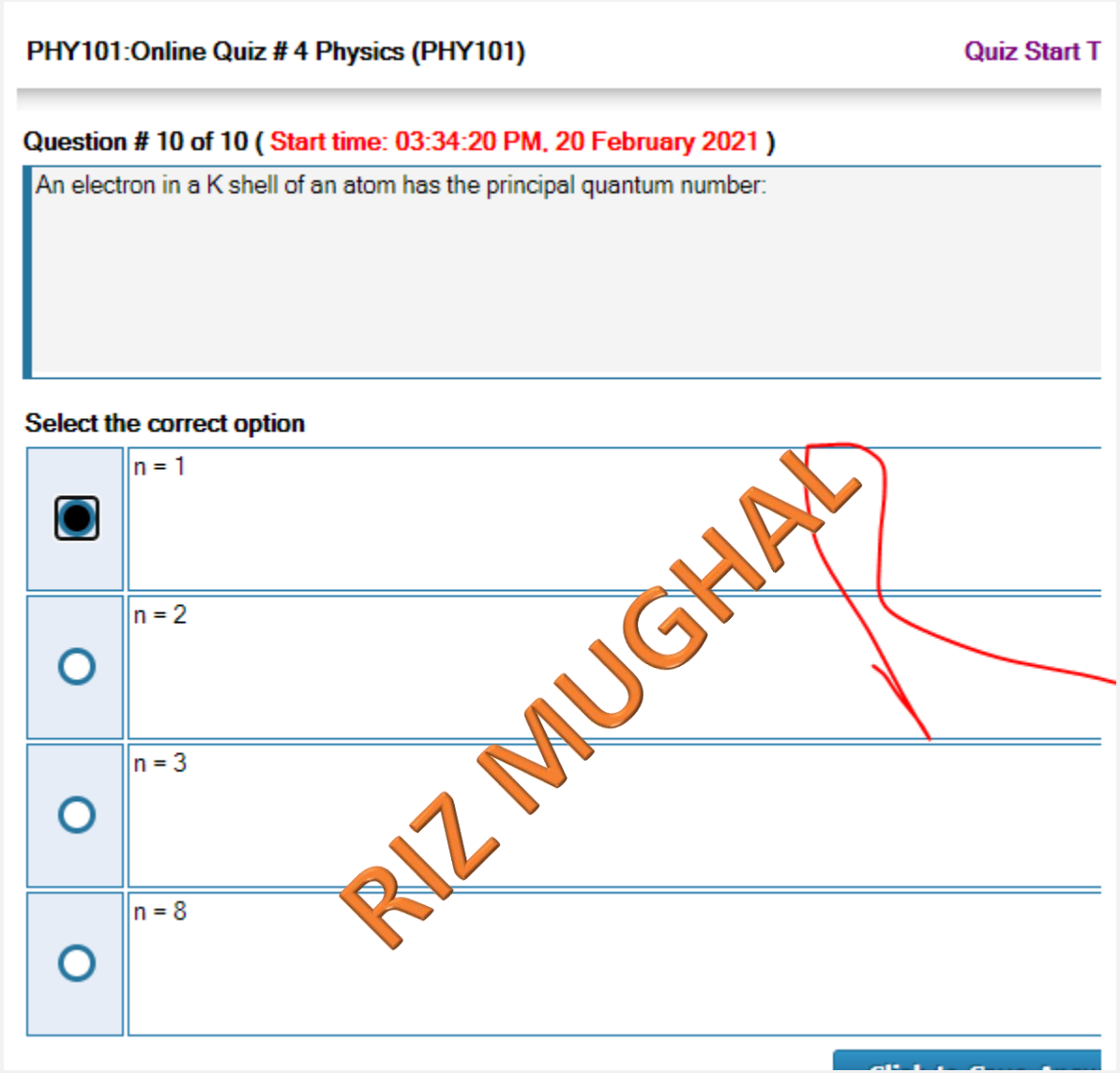
Question # 9 of 10 (Start time: 03:34:08 PM, 20 February 2021)

The quantum number n is most closely associated with what property of the electron in a hydrogen atom?

Select the correct option

- (●) Energy
- ( ) Orbital angular momentum
- ( ) Spin angular momentum
- ( ) Magnetic moment

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Quiz Start T
Question # 10 of 10 (Start time: 03:34:20 PM, 20 February 2021)
An electron in a K shell of an atom has the principal quantum number:
Select the correct option
n = 1
n = 2
n = 3
n = 8
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3rd account

PHY101:Online Quiz # 4 Physics (PHY101)

Quiz Start Time: 03:40 PM, 20 February 202

Question # 1 of 10 (Start time: 03:40:34 PM, 20 February 2021) **Total Marks:**

An electron (m = 9.11×10-31kg, q =1.60×10-19C) travels around a1.7-mm radius circular orbit perpendicular to a 2.8-T magnetic field. Its speed is:

Select the correct option

- ○ 0.16c
- ○ 0.36c
- ◉ 0.94c
- ○ c

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Question # 2 of 10 (Start time: 03:40:49 PM, 20 February 2021)

According to the theory of relativity:

Select the correct option

- ○ Moving clocks run fast
- ○ The speed of light must be measured relative to the ether
- ○ Momentum is not conserved in high speed collisions
- ◉ None of these are true

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PHY101:Online Quiz # 4 Physics (PHY101) Quiz Start Time: 03:40 PM, 20 Fe

Question # 3 of 10 (Start time: 03:41:01 PM, 20 February 2021) Tc

The specific heat of a substance is:

Select the correct option

- 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
- [x] The amount of heat energy per unit mass to raise the temperature of the substance by1?C

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Question # 4 of 10 (Start time: 03:41:13 PM, 20 February 2021)

The amplitude modulation frequency ranges from:

Select the correct option

- 540 kHz to 1000 kHz
- 540 kHz to 1600 kHz
- 520 kHz to 1600 kHz
- 540 kHz to 1400 kHz

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Question # 5 of 10 (Start time: 03:41:25 PM, 20 February 2021)

The ratio of the size of image to the size of object:

Select the correct option

- (●) Linear magnification
- ( ) Angular magnification
- ( ) Critical angle
- ( ) Resolving power

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Question # 6 of 10 (Start time: 03:41:38 PM, 20 February 2021)

Two parallel straight wires carrying current in same direction will:

Select the correct option

- (●) Attract each other
- ( ) No effect
- ( ) May repel or attract
- ( ) Repel each other

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Question # 7 of 10 (Start time: 03:41:52 PM, 20 February 2021)

When we accelerate the charge, which types of waves are produced?

Select the correct option

- ○ Mechanical waves
- ○ Travelling waves
- ○ Stationary waves
- ◉ Electromagnetic waves

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Question # 8 of 10 (Start time: 03:42:07 PM, 20 February 2021)

The concept of direction is purely:

Select the correct option

- ○ Relative to stars
- ○ Relative to the sun
- ◉ Relative
- ○ Absolute

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PHY101:Online Quiz # 4 Physics (PHY101) Quiz S

Question # 9 of 10 (Start time: 03:42:18 PM, 20 February 2021)

The mass of a hydrogen atom, in kilograms, is approximately:

Select the correct option

- (●) 10^-27
- ( ) 10^-31
- ( ) 10^-24
- ( ) 10^-13

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Click to Save

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Question # 10 of 10 (Start time: 03:42:32 PM, 20 February 2021)

There is no way to detect:

Select the correct option

- ○ Accelerated motions
- ◉ Absolute uniform motion
- ○ Static motion
- ○ State of motion

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Thank you for watching ☺

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