

PHY101 QUIZ(3)

Lecture 25 to 36

RIZ MUGHAL
SQA ENGINEER:

I'm providing 100% correct quiz solution.

You can visit my YouTube channel for more quiz solution, also final year project including project assignments, and viva.

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:25 PM, 08 February 20

Question # 1 of 10 (Start time: 05:25:14 PM, 08 February 2021) Total Marks

A Kelvin thermometer and a Fahrenheit thermometer both give the same reading for a certain sample. The corresponding Celsius temperature is:

Select the correct option

- 574?C
- 232?C
- 301?C
- 614?C

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:25 PM, 08 Feb

Question # 2 of 10 (Start time: 05:25:34 PM, 08 February 2021) To

In meta stable state, electrons reside:

Select the correct option

- ○ 10^-8 sec
- ○ 10^-5 sec
- ◉ 10^-3 sec
- ○ 10^-13 sec

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Quiz Start Time: 05:25 PM, 08 Febru

Question # 3 of 10 (Start time: 05:25:48 PM, 08 February 2021) Tota

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

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Select the correct option

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

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:25 PM.

Question # 4 of 10 (Start time: 05:26:04 PM, 08 February 2021)

Polarization means _____.

Select the correct option

- (●) To guide the light in only one direction
- ( ) To change the frequency of the light
- ( ) To alter the wavelength of the light
- ( ) To separate the light into its colors

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:25 PM, 08 February 20

Question # 5 of 10 (Start time: 05:26:21 PM, 08 February 2021) Total Marks

The primary of a 3:1 step-up transformer is connected to a source and the secondary is connected to a resistor R. The power dissipated by R in this situation is P. If R is connected directly to the source it will dissipate a power of:

Select the correct option

- (●) P/9
- ( ) P/3
- ( ) P
- ( ) 3P

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:25 PM

Question # 6 of 10 (Start time: 05:26:36 PM, 08 February 2021)

The Light from any ordinary source (such as a flame) is usually:

Select the correct option

- ○ Plane polarized
- ○ Circularly polarized
- ○ Monochromatic
- ◉ Un-polarized

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Ti

Question # 7 of 10 (Start time: 05:26:52 PM, 08 February 2021)

The wavelength of red light is 700 nm. Its frequency is _____.

Select the correct option

- (●) 4.29 * 10^14 Hertz
- ( ) 4.29 * 10^13 Hertz
- ( ) 4.29 * 10^15 Hertz
- ( ) 4.29 * 10^12 Hertz

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Question # 8 of 10 (Start time: 05:27:07 PM, 08 February 2021)

The wavelength of red light is 700 nm. Its frequency is _____.

Select the correct option

- ○ 4.29 x 10^3 Hertz
- ○ 4.29 x 10^5 Hertz
- ◉ 4.29 x 10^4 Hertz
- ○ 4.29 x 10^2 Hertz

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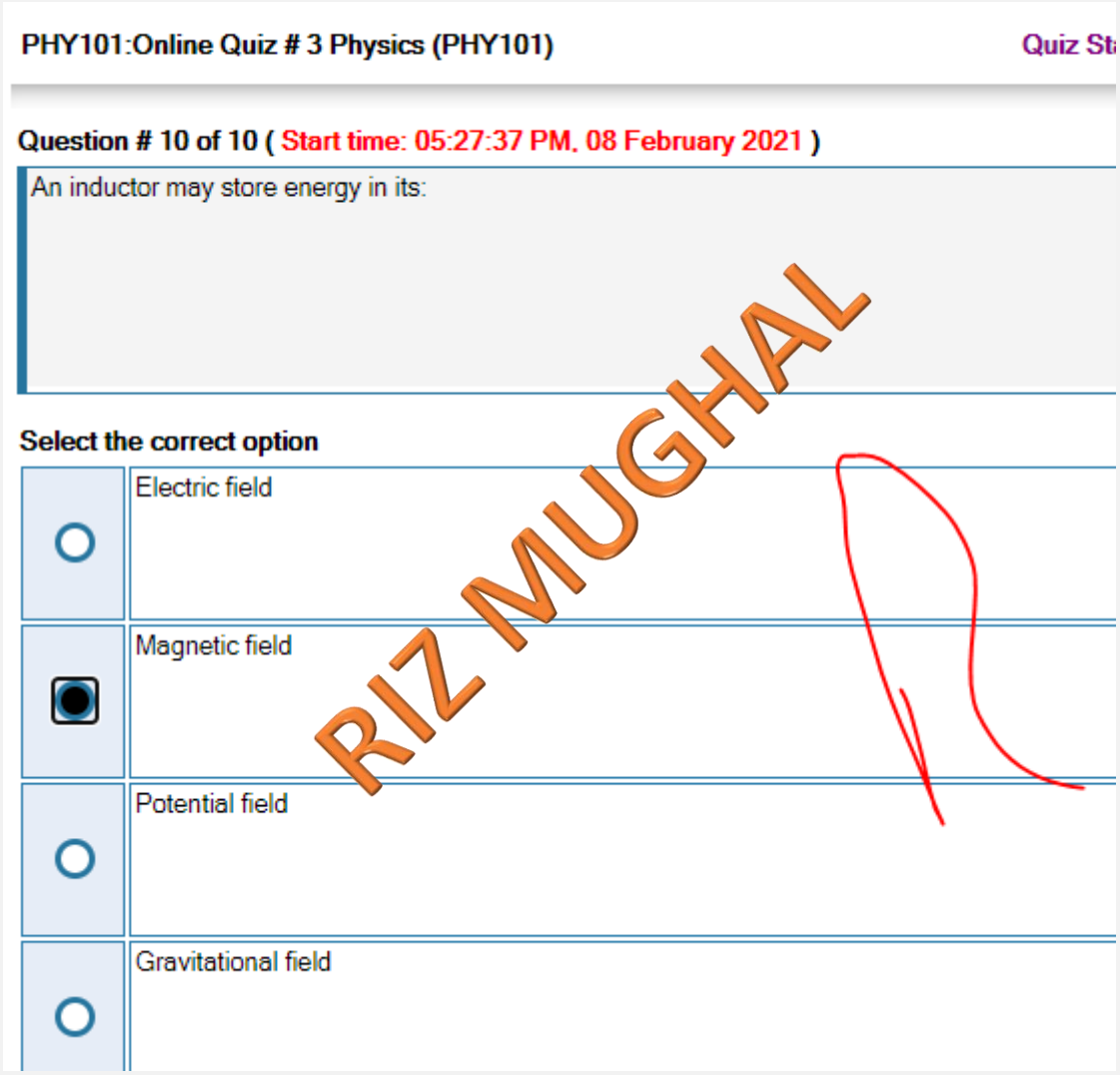
Question # 9 of 10 (Start time: 05:27:23 PM, 08 February 2021)

Coherent sources of light mean _____.

Select the correct option

- They must have same speeds
- They must have same frequency
- They must have same amplitude
- They must have fixed phase relative to each other

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Question # 10 of 10 (Start time: 05:27:37 PM, 08 February 2021)
An inductor may store energy in its:
Select the correct option
Electric field
Magnetic field
Potential field
Gravitational field
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2nd account

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:31 PM, 08 F

Question # 1 of 10 (Start time: 05:31:39 PM, 08 February 2021)

A virtual image is one:

Select the correct option

- ○ toward which light rays converge but do not pass through
- ◉ from which light rays diverge but do not pass through
- ○ from which light rays diverge as they pass through
- ○ toward which light rays converge and pass through

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time:

Question # 2 of 10 (Start time: 05:32:23 PM, 08 February 2021)

When you stand in front of a plane mirror, your image is:

Select the correct option

- real, erect, and smaller than you
- virtual, erect, and smaller than you
- virtual, erect, and the same size as you
- real, inverted, and the same size as you

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:31 PM.

Question # 3 of 10 (Start time: 05:32:40 PM, 08 February 2021)

Polarization means _____.

Select the correct option

- (●) To guide the light in only one direction
- ( ) To change the frequency of the light
- ( ) To alter the wavelength of the light
- ( ) To separate the light into its colors

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:31 PM, 08 F

Question # 4 of 10 (Start time: 05:33:00 PM, 08 February 2021)

The resolving power of a telescope can be increased by:

Select the correct option

- ○ increasing the objective focal length and decreasing the eyepiece focal length
- ◉ increasing the lens diameters
- ○ decreasing the lens diameters
- ○ inserting a correction lens between objective and eyepiece

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:

Question # 5 of 10 (Start time: 05:33:16 PM, 08 February 2021)

Two sources of light are said to be coherent if the waves produced by them have the same:

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Select the correct option

- ○ Wavelength
- ○ Amplitude
- ○ Wavelength and amplitude
- ● Wavelength and constant phase difference

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Question # 6 of 10 (Start time: 05:33:45 PM, 08 February 2021)

The center of Newton ring is dark due to:

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Select the correct option

- (●) Destructive interference
- ( ) Constructive interference
- ( ) Diffraction
- ( ) Polarization

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:3

Question # 7 of 10 (Start time: 05:34:03 PM, 08 February 2021)

The A.C circuit in which current and voltage are in phase the power factor is

Select the correct option

- ○ 0
- ◉ 1
- ○ 0.5
- ○ Infinity

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:31 PM, 08 February 2021

Question # 8 of 10 (Start time: 05:34:21 PM, 08 February 2021) **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?

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Select the correct option

- ○ His face
- ○ Your face
- ◉ The movie camera
- ○ The director's face

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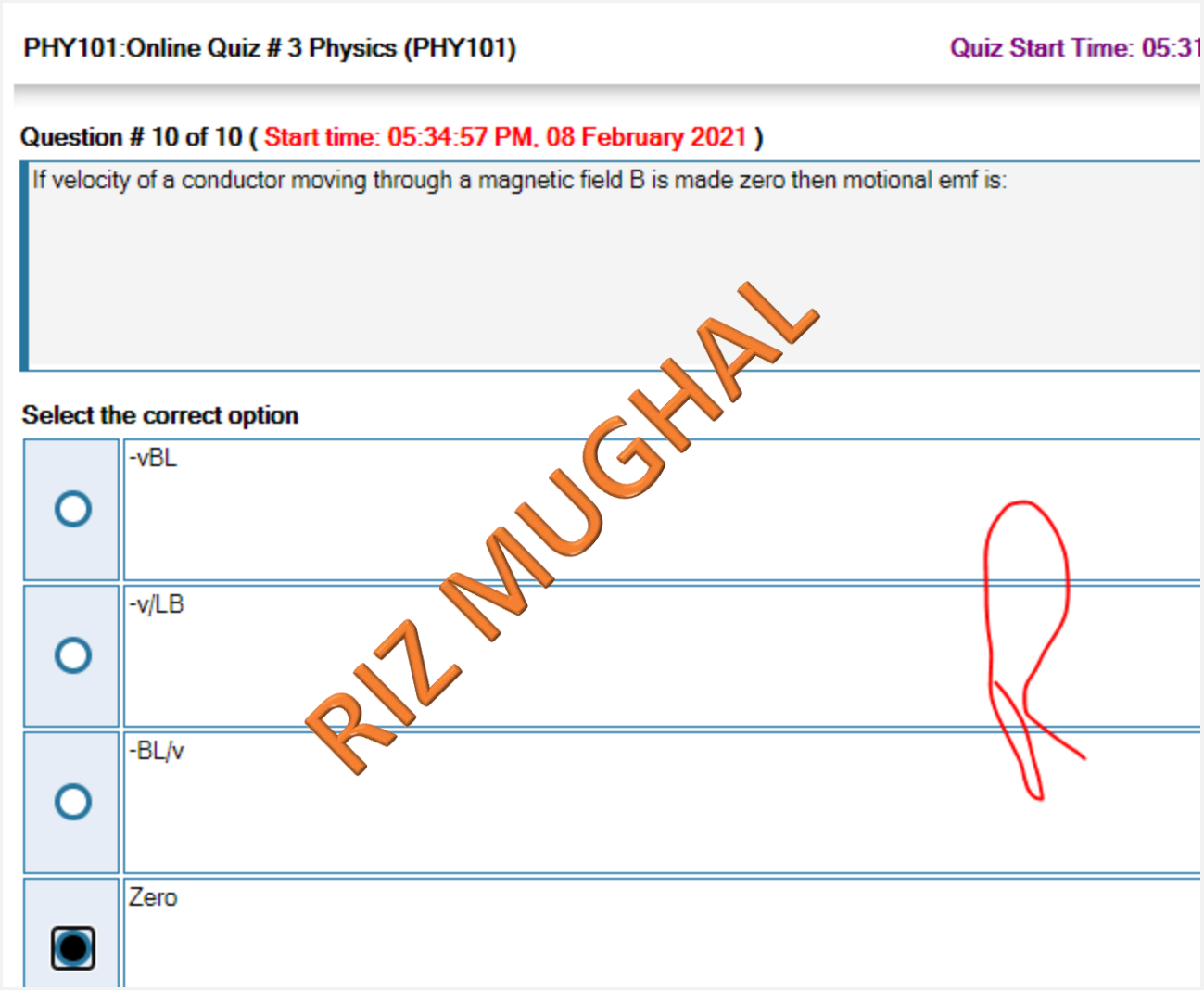
Question # 9 of 10 (Start time: 05:34:41 PM, 08 February 2021)

Work done on a charged particle moving in uniform magnetic field is:

Select the correct option

- ○ Negative
- ○ Minimum
- ◉ Zero
- ○ Maximum

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PHY101:Online Quiz # 3 Physics (PHY101)
Quiz Start Time: 05:31
Question # 10 of 10 (Start time: 05:34:57 PM, 08 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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3rd account

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:38 F

Question # 1 of 10 (Start time: 05:38:27 PM, 08 February 2021)

The total energy in an LC circuit is 5.0 × 10−6 J. If L = 25mH the maximum current is:

Select the correct option

- ○ 10mA
- ◉ 20mA
- ○ 14mA
- ○ 28mA

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:38 PM, 08 February 20

Question # 2 of 10 (Start time: 05:38:46 PM, 08 February 2021) Total Mark

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?

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Select the correct option

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

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:38 PM, 08 February 2021

Question # 3 of 10 (Start time: 05:39:01 PM, 08 February 2021) **Total Marks:** 1

A laser in a compact disc player generates light that has a wavelength of 780 nm in air. The light then enters into the plastic of a CD. If the index of refraction of plastic is 1.55, the speed of this light once enter the plastic is _____.

Select the correct option

- ○ 3.00 x10^8 m/s
- ◉ 1.94 x 10^8 m/s
- ○ 4.29 x 10^8 km/h
- ○ 3.00 x 10^8 km/h

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz S

Question # 4 of 10 (Start time: 05:39:19 PM, 08 February 2021)

Which method(s) of heat transfer can take place in vacuum?

Select the correct option

- (●) Radiation
- ( ) Convection
- ( ) Conduction & Convection
- ( ) Conduction

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:38 PM, 08

Question # 5 of 10 (Start time: 05:39:34 PM, 08 February 2021)

An erect object is in front of a convex mirror a distance greater than the focal length. The image is:

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Select the correct option

- ○ Real, inverted, and smaller than the object
- ○ Virtual, inverted, and larger than the object
- ○ Real, inverted, and larger than the object
- ◉ Virtual, erect, and smaller than the object

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Tir

Question # 6 of 10 (Start time: 05:39:52 PM, 08 February 2021)

In constructing a thermometer it is NECESSARY to use a substance that:

Select the correct option

- ○ Expands linearly with rising temperature
- ○ Will not freeze
- ○ Will not boil
- ◉ Undergoes some change when heated or cooled

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05:38 PM, 08 February 2021

Question # 7 of 10 (Start time: 05:40:08 PM, 08 February 2021) **Total Marks:** 1

A generator supplies 100V to the primary coil of a transformer. The primary has 50 turns and the secondary has 500 turns. The secondary voltage is:

Select the correct option

- (●) 1000V
- ( ) 500V
- ( ) 250V
- ( ) 100V

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Question # 8 of 10 (Start time: 05:40:24 PM, 08 February 2021)

An inductor may store energy in its:

Select the correct option

- ○ Electric field
- ◉ Magnetic field
- ○ Potential field
- ○ Gravitational field

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PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 05

Question # 9 of 10 (Start time: 05:40:43 PM, 08 February 2021)

When a charge is projected perpendicular to a uniform magnetic field, its path is:

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Select the correct option

- (●) Circular
- ( ) Ellipse
- ( ) Helix
- ( ) Spiral

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Question # 10 of 10 (Start time: 05:40:56 PM, 08 February 2021)

The theoretical upper limit for the frequency of electromagnetic waves is:

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Select the correct option

- ○ just slightly greater than that of red light
- ○ just slightly less than that of blue light
- ○ the greatest x-ray frequency
- ◉ there is no upper limit

Thank you for watching ☺

Share with your fellows

rizwanqadeer848@gmail.com