Question # 9 of 10 (Start time: 11:54:04 AM, 09 February 2021)

Total Marks: 1

Which of the following is true of all virtual images?

Select the correct option

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

BC190400423: ASIM

Time Left 89 sec(s)

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 11:44 AM, 09 February 2021

Question # 8 of 10 (Start time: 11:52:59 AM, 09 February 2021)

Total Marks: 1

For an electron, the rest mass energy is:

Select the correct option

- 0.411 MeV
- 0.511 MeV
- 0.611 MeV
- 0.711 MeV

BC190400423: ASIM

Time Left 81 sec(s)

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 11:44 AM, 09 February 2021

Question # 6 of 10 (Start time: 11:51:02 AM, 09 February 2021)

Total Marks: 1

A transparent refracting medium bounded by the two curved surfaces called:

Select the correct option

- Prism
- Mirror
- Glass
- Lens

Question # 3 of 10 (Start time: 11:48:06 AM, 09 February 2021)

Total Marks: 1

There is a temperature at which the reading on the Kelvin scale is numerically:

Select the correct option

- Equal to that on the Celsius scale
- Lower than that on the Celsius scale
- Equal to that on the Fahrenheit scale
- Less than zero

BC190411907: SAEED ASLAM

Time Left 89 sec(s)

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 10:46 AM, 09 February 2021

Question # 9 of 10 (Start time: 10:51:29 AM, 09 February 2021)

Total Marks: 1

Which one of is in the order of decreasing frequency?

Select the correct option

- X – rays, radio waves, infrared rays
- Ultraviolet rays, visible light, radio waves
- Infrared rays, visible light, x – rays
- Yellow, green, red

PHY101:Online Quiz # 3 Physics (PHY101) Quiz Start Time: 10:51 PM, 08 February 2021

Question # 3 of 10 (Start time: 10:54:56 PM, 08 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?

Select the correct option

- 0.4 m
- 40 m
- 4.0 m
- 4.04 m

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 09:05:58 PM, 08 February 2021)

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

Click to Save Answer & Move to Next Q

PHY101:Online Quiz # 3 Physics (PHY101)

Question # 3 of 10 (Start time: 08:59:43 PM, 08 February 2021)

Polarization experiments provide evidence that light is:

Select the correct option

O	a longitudinal wave
O	a transverse wave
O	some type of wave
O	nearly monochromatic

PHY101:Online Quiz # 3 Physics (PHY101)

Question # 2 of 10 (Start time: 08:57:49 PM, 08 February 2021)

The units of the Planck constant h are those of

Select the correct option

- Energy
- Angular momentum
- Momentum
- Frequency

PHY101 Online Quiz # 3 Physics (PHY101)

Question # 1 of 10 (Start time: 08:56:52 PM, 08 February 2021)

We desire to make an LC circuit that oscillates at 100 Hz using an inductance of 2.5H. We also need a capacitance of

Select the correct option

- 1 F
- 1mF
- 1μF
- 100μF

uestion # 9 of 10 (Start time: 07:35:12 PM, 08 February 2021)

n 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

Question # 7 of 10 (Start time: 07:48:30 PM, 08 February 2021)

If energy of photon is E, it is equivalent to mass:

Select the correct option

- O E/c^2
- O Ec^2
- O c^2/E
- O Ec

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 photon in beam B
- twice the energy of a photon in beam B

The reaction of an induction at 50 Hz is 10 Ω, its reactance at 100 Hz becomes:

Select the correct option

- 20 Ω
- 5 Ω
- 2.5 Ω
- 1 Ω

Question # 6 of 10 (Start time: 07:42:32 PM, 08 February 2021) Total Marks: 1

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

Question # 8 of 10 (Start time: 07:34:05 PM, 08 Febru

Which one of is in the order of decreasing frequency?

Select the correct option

○	X - rays, radio waves, infrared rays
○	Ultraviolet rays, visible light, radio waves
○	Infrared rays, visible light, x - rays
○	Yellow, green, red

Question # 3 of 10 (Start time: 05:33:43 PM, 08 February 20

$2dSin\theta = m\lambda$ is called:

Select the correct option

- Laplace's equation
- Reflection equation
- Refraction equation
- Bragg equation

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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?

Select the correct option

- 0.4 m
- 40 m
- 4.0 m
- 4.04 m

BC190402655: MUHAMMAD AMEEN

PHY101:Online Quiz # 3 Physics (PHY101)

Question # 7 of 10 (Start time: 12:16:27 PM, 08 February 2021)

A step-down transformer is used to:

Select the correct option

- increase the power
- decrease the power
- increase the voltage
- decrease the voltage

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2021

Question # 4 of 10 (Start time: 01:08:27 AM, 08 February 2021)

Total Marks: 1

The focal length of a spherical mirror is N times its radius of curvature where N is:

Select the correct option

- 1/4
- 1/2
- 1
- 2

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 01:05:33 AM, 08 February 2021) **Total Marks: 1**

Select the correct statement:

Select the correct option

○	Ultraviolet light has a longer wavelength than infrared
○	Blue light has a higher frequency than x rays
○	Radio waves have higher frequency than gamma rays
○	Gamma rays have higher frequency than infrared waves

HY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2021

uestion # 5 of 10 (Start time: 01:09:33 AM, 08 February 2021)

Total Marks:

The appearance of colors in thin film is due to:

Select the correct option

- Interference
- Diffraction
- Dispersion
- Polarization

HY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2021

uestion # 10 of 10 (Start time: 01:14:17 AM, 08 February 2021)

Total Marks: 1

n 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

Click to Save Answers & Move to Next Question

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

- o f/4
- o f
- o 2f
- o f/2

Quiz Start Time: 01:03 AM, 08 February 202

Question # 6 of 10 (Start time: 01:10:14 AM, 08 February 2021) **Total Marks:**

Bending of light around the edges of an obstacle called

Select the correct option

- [x] Refraction
- [ ] Polarization
- [ ] Interference
- [ ] Diffraction

Click to Save Answer & Move to Next Question

[redacted]

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 Febr

Question # 3 of 10 (Start time: 01:06:10 AM, 08 February 2021)

Total M

In Young's double slit experiment, the position of the bright fringe is given by

Select the correct option

- Ym = mL/λd
- Ym = mLλ/d
- Ym = mλd/L
- Ym = mLd/λ

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2021

Question # 7 of 10 (Start time: 01:11:40 AM, 08 February 2021) **Total Marks: 1**

Constant-volume gas thermometers using di?erent gases all indicate nearly the same temperature when in contact with the same object if

Select the correct option

- The volumes are all extremely large
- The volumes are all the same
- The pressures are all extremely large
- The particle concentrations are all extremely small

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 01:13:03 AM, 08 February 2021) Total Marks: 1

Following are the ways by which light can interact with matter, EXCEPT:

Select the correct option

- Emission
- Interference
- Absorption
- Transmission

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PHY101:Online Quiz # 3 Physics (PHY101) February 2021

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Question # 7 of 10 (Start time: 02:35:46 AM, 08 February 2021) **Total Marks: 1**

In RL series circuit phase angle is given by:

Select the correct option

- Tan-1 (ωL/R)
- Tan-1 (R/ωL)
- Tan-1 (ωLR)
- Tan-1(ωR/L)

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 02:27 AM, 08 February 2021

Question # 8 of 10 (Start time: 02:37:31 AM, 08 February 2021)

Total Marks: 1

The theoretical upper limit for the frequency of electromagnetic waves is

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

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 02:27 AM, 08 February 2021

Question # 5 of 10 (Start time: 02:32:42 AM, 08 February 2021)

Total Marks: 1

A step-down transformer is used to:

Select the correct option

- increase the power
- decrease the power
- increase the voltage
- decrease the voltage

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HY101:Online Quiz # 3 Physics (PHY101)

Time Left

Quiz Start Time: 02:27 AM, 08 Feb

Question # 6 of 10 (Start time: 02:34:17 AM, 08 February 2021)

Total

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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PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2021

Question # 1 of 10 (Start time: 01:03:51 AM, 08 February 2021)

Total Marks: 1

Electric energy is measured

Select the correct option

- Kilowatt hour
- Kilowatt
- Horsepower
- Watt

Click to Save Answer & Move to Next Question

PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 02:27 AM, 08 February 2021

Question # 10 of 10 (Start time: 02:41:08 AM, 08 February 2021) **Total Marks: 1**

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 # 3 Physics (PHY101) — **Quiz Start Time: 02:27 AM, 08 February 2021**

Question # 2 of 10 (Start time: 02:27:58 AM, 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?

Select the correct option

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

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PHY101:Online Quiz # 3 Physics (PHY101) February 2021

Question # 4 of 10 (Start time: 02:31:18 AM, 08 February 2021) **Total Marks: 1**

The units of Stefan Boltzman constant are _____.

Select the correct option

- W m^2K^-4
- W^-2 m^-2K^-4
- W m^-2K^-4
- W m^-2K^4

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HY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 02:27 AM, 08 February 2021

Question # 3 of 10 (Start time: 02:30:05 AM, 08 February 2021)

Total Marks:

The plants look green. It is because they have chlorophyll in them. Chlorophyll makes leaves green to absorb _____

Select the correct option

- ○ Green only
- ○ Red only
- ○ Blue only
- ■ Red and blue both

Click to Save Answer & Move to Next Q

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HY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 01:03 AM, 08 February 2

Question # 8 of 10 (Start time: 01:12:26 AM, 08 February 2021)

Total Mark

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

Select the correct option

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

Click to Save Answer & Move to Next Question

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PHY101:Online Quiz # 3 Physics (PHY101)

Quiz Start Time: 02:27 AM, 08 February 2

Question # 1 of 10 (Start time: 02:27:11 AM, 08 February 2021)

Total Mark

Antiparticle of electron is:

Select the correct option

- Proton
- Photon
- Neutron
- Positron

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 03:50:41 PM, 28 August 2020) Total Marks:

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 the scene what does the actor see in the mirror?

Select the correct option

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