Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-02-04, 23:59 IST.

1) The phenomenon in which the incident light falling on a surface goes back to the same medium is called ________.

- Refraction
- Reflection
- Interference
- Diffraction

No, the answer is incorrect.
Score: 0
Accepted Answers:
Reflection

2) What is the angle between the incident and reflected rays when a ray of light is incident normally on a mirror plane?

- 90°
- 180°
- 0°
- 45°

No, the answer is incorrect.
Score: 0
Accepted Answers:
0°

3) The ratio of Sine of angle of incidence to the Sine of angle of refraction for a pair of two media is constant. This is called ________

- Snell's law
- F=ma

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1) What is it called where the parallel rays of light entering a convex lens converge at?
- Principle axis
- Optical centre
- Radius of curvature
- Principle focus

No, the answer is incorrect.
Score: 0
Accepted Answers: Snell's law

2) What is the reciprocal of the focal length (in meters) called?
- Focal plane of the lens
- Curvature of the lens
- Power of the lens
- Radius of curvature of the lens

No, the answer is incorrect.
Score: 0
Accepted Answers: Principle focus

3) Calculate the wavelength of radiation emitted by an LED made up of a semiconducting material with band gap energy 2.8 eV. (1 eV = 1.602 x 10^{-19} Joules, 1 nm = 10^{-9} meter)
- 44.3 nm
- 542 nm
- 443 nm
- 582 nm

No, the answer is incorrect.
Score: 0
Accepted Answers: 443 nm

4) The colour of a light depends on its____.
- Wavelength
- Intensity
- Amplitude of its electric field
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers: Wavelength

5) Radiation of 532 nm is being emitted from a light source. Calculate the corresponding energy. (1 eV = 1.602 x 10^{-19} Joules, 1 nm = 10^{-9} meter)
- 2.43 eV
- 2.33 eV

No, the answer is incorrect.
Score: 0
Accepted Answers: 2.33 eV
9) Which of the following photons will possess highest energy?

- Infrared
- Ultra Violet
- X-ray
- Gamma ray

No, the answer is incorrect.
Score: 0
Accepted Answers:
Gamma ray

10) What does the acronym MASER stand for?

- Microwave Amplification by Stimulated Emission of Radiation
- Molecular Absorption by Stimulated Emission of Radiation
- Multiphoton Absorption by Stimulated Emission of Radiation
- Microwave Amplification by Spontaneous Emission of Radiation

No, the answer is incorrect.
Score: 0
Accepted Answers:
Microwave Amplification by Stimulated Emission of Radiation