

Unit 1 - How does an NPTEL online course work?

Course outline

How does an NPTEL online course work?

- Welcome to NPTEL open online course
- Information about the course and accessing the content
- Announcement
- Discussion Forum: Do you have a doubt or question
- Know your scores in the Assignments
- What you should know about the final certification exam
- Certification criteria
- Best practices to maximize the learning from the online course
- Guidelines and Timelines
- MCQ and MSQ Assignment
- Numerical and Short Answer Assignment
- Subjective Assignment (Essay Type)
- Subjective Assignment (Scan and Upload)
- Programming Assignment
- Quiz : Assignment 0**

Week 1

Week 2

Week-3

Week-4

Download videos

Weekly Feedback

Assignment 0

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

Due on 2020-01-26, 23:59 IST.

1) An electromagnetic wave is wave which is _____ in nature. 1 point

- Longitudinal
- Transverse
- Plane progressive & Transverse
- Cylindrical

No, the answer is incorrect.
Score: 0

Accepted Answers:
Plane progressive & Transverse

2) After passing through three consecutive medium of refractive index n_1 , n_2 , n_3 . Transmitted ray becomes parallel to the incident ray if it follows one of the condition. 1 point

- $n_1 < n_2 < n_3$
- $n_1 > n_2 > n_3$
- $n_1 < n_3 < n_2$
- $n_1 = n_3 < n_2$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $n_1 = n_3 < n_2$

3) If a light ray passes from one air to another medium making an incident angle 60 degree and transmitted angle 30 degree with respect to normal what should be the velocity of light in the second medium. 1 point

- $C/2$
- $c/\sqrt{2}$
- $c/\sqrt{3}$
- $C/4$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $c/\sqrt{3}$

4) In a single slit experiment if the aperture width of slit increase, it causes 1 point

- Central maxima becomes sharper.
- Central maxima becomes broader.
- Central maxima remains same but shift in one side.
- First harmonic shifts toward the central maxima.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Central maxima becomes broader.

5) In a young's double slit experiment, the slit separation is doubled. To maintain the same fringe spacing on the screen. 1 point

- $D/2$
- $D/\sqrt{2}$
- $D/\sqrt{3}$
- $2D$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $2D$