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## JEE MAINS Previous Years Questions

**Dispersion By Physicsaholics Team** 

### For Video Solution of this DPP, Click on below link

Video Solution on Website:-

### https://physicsaholics.com/home/courseDetails/73

Video Solution on YouTube:-

https://youtu.be/QZ\_s\_O7fTPo

A green light is incident from the water to the air - water interface at the critical angle ( $\theta$ ). Select the correct statement.

- (a) The entire spectrum of visible light will come out of the water at an angle of 90° to the normal.
- (b) The spectrum of visible light whose frequency is less JEE Main than that of green light will come out to the air medium.

**JEE Main 2014** 

less freq, =) high S = low L =) high Ic

 $i_{c} = S_{in}^{-1} \left( \frac{1}{n} \right)$ 

0

Yeel

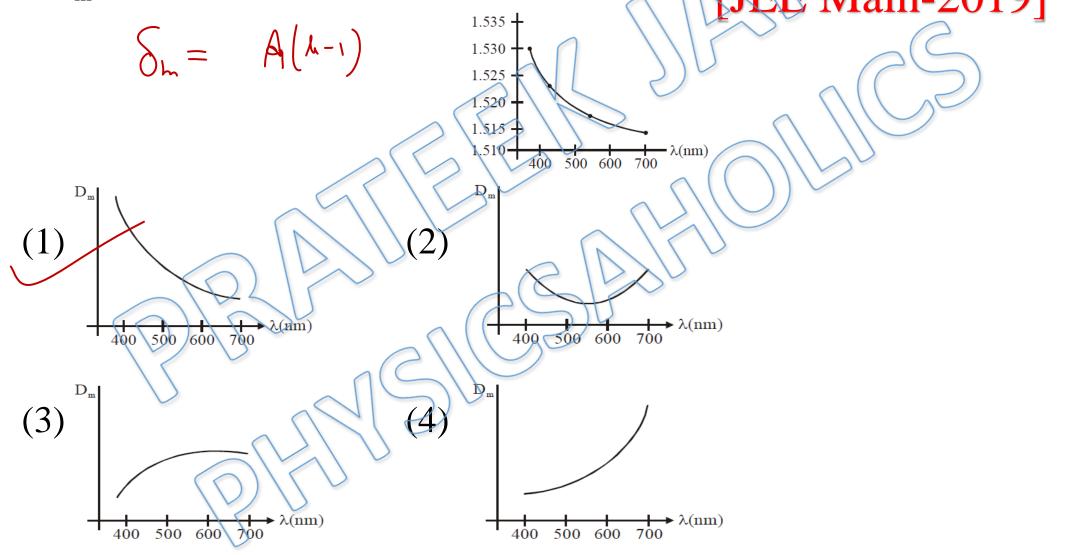
- (c) The spectrum of visible light whose frequency is more than that of green light will come out to the air medium.
- (d) The entire spectrum of visible light will come out of the  $\sqrt{\sqrt{q}}$  water at various angles to the normal.

Ans. b

- The refractive index of a glass is 1.520 for red light and 1.525 for blue light. Let  $D_1$  and  $D_2$  be angles of minimum deviation for red and blue light respectively in a prism of this glass. Then, [2006] JEE Main
  - (a)  $D_1 < D_2$
  - (b)  $D_1 = D_2$
  - (c)  $D_1$  can be less than or greater than  $D_2$  depending upon the angle of prism
  - (d)  $D_1 > D_2$

#### Ans. a

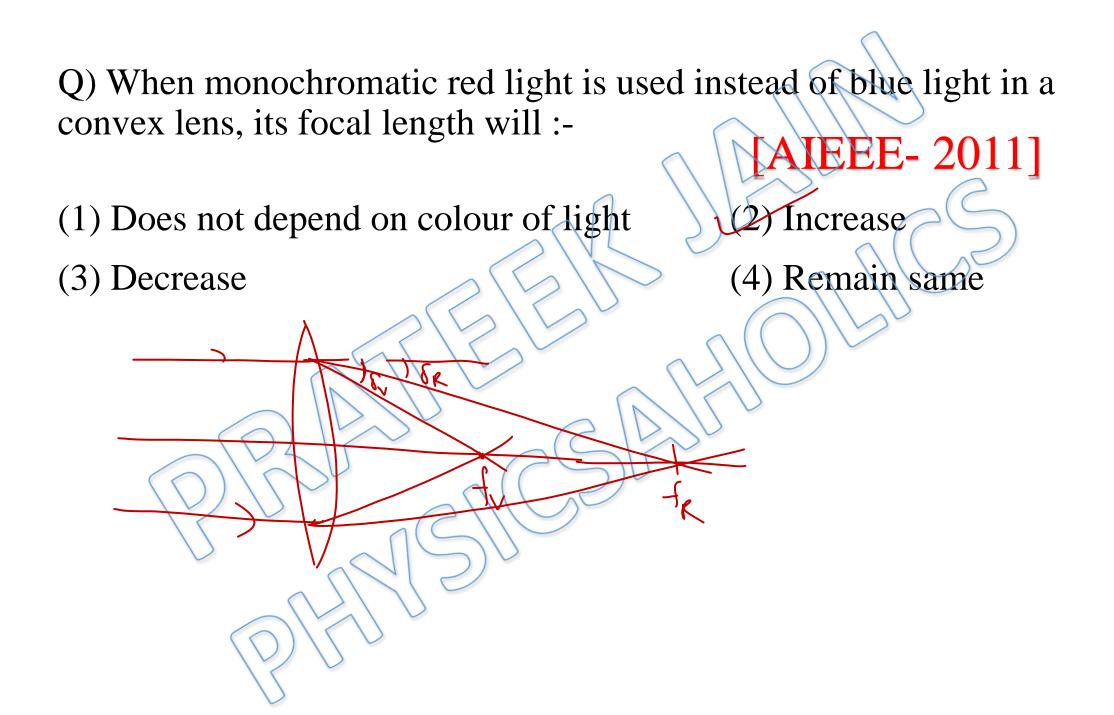
Q) The variation of refractive index of a crown glass thin prism with wavelength of the incident light is shown. Which of the following graphs is the correct one, if  $D_m$  is the angle of minimum deviation? [JEE Main-2019]



#### Ans. 1

## **PYQs on Following Subtopic:**

Longitudinal Chromatic Aberration



#### Ans. 2





Links are also in the description of the video.

