

Physics ECAT Pre Engineering Chapter 9 Physical Optics Online Test

Sr	Questions	Answers Choice
1	A convex lens acts as diverging lens when the object is placed:	A. Between F and 2F B. At 2F C. With focal length D. Beyond 2F
2	The distance from eye to near point is taken as:	A. 10 cm B. 15 cm C. 20 cm D. 25 cm
3	With age, least distance of distinct vision:	A. Increases B. Decreases C. Is not affected D. None is correct
4	The least distance of distinct vision is:	A. 10 cm B. 25 cm C. 50 cm D. 100 cm
5	In YDS experiment, fringe spacing means the distance between two consecutive _____ fringes.	A. Bright B. Dark C. Any of A and B D. None of these
6	In an interference pattern of Young's double slit(YDS) experiment:	A. Bright fringes are wider than dark fringes B. Dark fringes are wider than bright fringes C. Both dark and bright fringes are of equal width D. Central fringes are wider than the outer fringes
7	In case of constructive interference of two waves, the amplitude of the resultant wave is _____ either of the waves:	A. Greater than B. Equal to C. Smaller than D. None of these
8	The terms phase difference and path difference are:	A. Same B. Different C. Equal D. None of these
9	In case of destructive interference of two waves, the amplitude of the resultant wave will be _____ either of the waves:	A. Greater than B. Smaller than C. Equal to D. None of these
10	To observe interference of light, the condition, which must be met with is that the sources must be:	A. Monochromatic B. Phase coherent C. Both of above D. None of above
11	Two sources are said to be coherent if they have:	A. Same amplitude B. Same wavelength C. Definite phase relation with each other D. None of them
12	The appearance of the colour in the soap (oil) film results from:	A. Dispersion B. Interference C. Reflection D. Refraction
13	The property of light which does not change with the nature of the medium is:	A. Frequency B. Amplitude C. Wavelength D. None of these
14	A line which represents the direction of travel of a wave is known as:	A. Spherical Wavefront B. Locus C. Ray D. None of these

D. Either B or C

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Huygen's principles states that:

A. Light has dual nature

B. Either of these

C. None of these

D. Light travels in straigth line