

Physics ECAT Pre Engineering Chapter 10 Optical Instruments Online Test

| Qr. | Questions | Answers Choice |
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| Sr | Questions | |
| 1 | In YDS experiment, fringe spacing means the distance between two consecutivefringes | A. Bright B. Dark C. Any of A or B D. None of these |
| 2 | 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 |
| 3 | 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 |
| 4 | The terms phase difference and path difference are | A. Same B. Different C. Equal D. none of these |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | The appearance of colours in the soap (or oil) film results from | A. Dispersion B. Interference C. Reflection D. Refraction |
| 9 | The appearance of colours in the soap (or oil) film results from | A. Dispersion B. Interference C. Reflection D. Refraction |
| 10 | 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 |
| 11 | A line which represents the direction of travel of a wave is known as | A. Spherical wavefront B. Locus C. Ray D. Either B or C |
| 12 | Huygen's principle states that | A. Light travels in straight line B. Light has dual nature C. Either of these D. None of these |
| 13 | The wave nature of light was proposed by | A. Newton B. Thomas Young C. Huygen D. None of these |
| 14 | Laws of reflection and refraction can also be explained by | A. Particle nature of light B. Quantum nature of light C. Wave nature of light D. Complex nature of light |

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