

Physics Fsc Part 1 Chapter 8 Online Test

Sr	Questions	Answers Choice
1	What are gravitational waves.	A. <p>Electromagnetic waves</p> B. <p>Mechanical waves</p> C. <p>Ocean waves</p> D. <p>Ripple in the fabric of spacetime</p>
2	An unpolarized beam of gtransverse wave is that whose vibrations.	A. <p>Are confined to a single plane</p> B. <p>Takes place in direction perpendicular to their direction of propogation</p> C. <p>Takes place in all direction&nbsp;</p> D. <p>Take place i n directio parallel to the direction of propogation</p>
3	Polarizatio of light shows taht light is	A. <p>Corpuscular in nature</p> B. <p>Of extremely shrot waves</p> C. <p>Longitudinal waves</p> D. <p>Transverse waves</p>
4	Optically acgive crystals are	A. <p>Quartz</p> B. <p>Sodium Chlorate</p> C. <p>Sodium Chlorade</p> D. <p>Botha a and b</p>
5	The key purpose of an analyzer in a polarization experiment is.	A. <p>To polarize the light</p> B. <p>To measure the intensity of light</p> C. <p>To change the direction oflight</p> D. <p>To filter out onwanted light</p>
6	To distinguish between transverse and longitudinal wae.....is used.	A. <p>Polarization&nbsp;</p> B. <p>Refraction&nbsp;</p> C. <p>Interference</p> D. <p>Diffraction&nbsp;</p>
7	Which of the following is a primary souce of gravitational waves.	A. <p>Binary bck hole merger</p> B. <p>Soalr flares</p> C. <p>Earth quack</p> D. <p>Solar wind</p>
8	The condition of maximum intensity of light in a polarization experimentis when.	A. <p>The light wave and analyzer are perpendicular</p> B. <p>The ligh wave and analyzer are parallel</p> C. <p>The ligh wave and analyzer are at an angle of 45<sup>o</sup></p> D. <p>The light wave and analyzer are at an angle of 60 <sup>o</sup></p>
9	Which of the following rays cannot be polarized.	A. <p>Sound Waves</p> B. <p>Light Waves</p> C. <p>X- Rays</p> D. <p>Infrated rays</p>
10	Which is the primary method usedot detect gravitational waves.	A. <p>Optical telescopes</p> B. <p>Radio telescopes</p> C. <p>LASER interferometry</p> D. <p>Gravitational lensing</p>
11	The effect of increasing the angle between the light wave and the analyzer on the intensity of light is.	A. <p>The intensity increases</p> B. <p>The intensity of decreases</p> C. <p>The intensity remains the same</p> D. <p>The intensity becomes zero</p>
12	Longitudinal waves do not exhibit.	A. <p>Polarization&nbsp;</p> B. <p>Reflection&nbsp;</p> C. <p>Diffraction&nbsp;</p> D. <p>Refraction</p>

13	The unwanted light aht interferes with vision is termed as.	A. <p>Haze</p> B. <p>glare</p> C. <p>cONTRAST</p> D. <p>Flare</p>
14	We van polarize the light by passing it through.	A. <p>Water</p> B. <p>Polaroid</p> C. <p>Glass</p> D. <p>Prism</p>
15	The intensity of light when it passes through a polarizer.	A. <p>Decreases</p> B. <p>Increases</p> D. <p>Remain same</p> E. <p>Become Zero</p>
16	Who predicted the existence of gravitational waves.	A. <p>Galileo Galilei</p> B. <p>Albert Einstein</p> C. <p>Issac Newton</p> D. <p>Leonardo da 1venci</p>
17	Malus's law states that	A. <p>The intensity of light is directly proportional to the square of the cosine of the angle between the light wave and the analyzer</p> B. <p>The intensity of light is directly proportional to the squae of the sine of the angle betwene the light wave and the analyzer</p> C. <p>The intensity of light is directly proportional to the angle between the light wave and the analyzer</p> D. <p>The intensity of light is inveseely proportional to the angle between the light wave and the analyzer</p>
18	Light can be polarized by	A. <p>Selective absorption</p> B. <p>Reflection&nbsp;</p> C. <p>Scattering</p> D. <p>All of these</p>
19	The mathematical representation of Malus's law is.	A. <p>$I = I_0 \cos^2 \theta$&nbsp;</p> B. <p>$I = I_0 \sin^2 \theta$&nbsp;</p> C. <p>$I = I_0 \tan^2 \theta$&nbsp;</p> D. <p>$I = I_0 \cot^2 \theta$&nbsp;</p>
20	Polarized sun glasses decrease glare on sunny day because they.	A. <p>Completely absorb the light&nbsp;</p> B. <p>Have a special colour</p> C. <p>Refract the light</p> D. <p>Block a portion of light</p>

