MCQ1: Which of the following scientist explain the laws of reflection and refraction? Answer: Huygens
MCQ2: Light travels in a line Answer: Straight
MCQ3: The pin hole camera works on the principle of  Answer: Rectilinear propagation of light
MCQ4: The first scientist that completely measured the speed of light  Answer: Fizeaus
MCQ5: Newton and Huygens theory of light is called Answer: Wave model
MCQ6: Young experiment shows that wavelength of visible light lies in the rangeAnswer: 4000Ã to 7000Ã
MCQ7: A light wave is associated with changing Answer: Electric and magnetic fields
MCQ8: In Maxwell's field equations â^ž represent  Answer: Electrical conductivity
MCQ9: The symbols of Éš and J denote and in Maxwell's equation Answer: free charge, conduction current density
MCQ10: One of the Maxwell's equation in a vacuum is given as denotes  Answer: Magnetic permeability
MCQ11: X-rays was discovered in 1898 by Answer: Roentgen
MCQ12: The value electromagnetic wave was found by Maxwell as Answer: 3.41 X108ms-1
MCQ13: By measuring the wavelength and frequency of electromagnetic waves, it was proved that light is an electromagnetic waves. This experiment was demonstrated by
Answer: Hertz
MCQ14: The eye defect in which a man finds it difficult to see objects at long distances is called Answer: Myopia
MCQ15: Given that Eo1=2v2/(v2+v1) for electric field between two medium. If V2> V1. It does suggest that  Answer: the reflected wave will be in phase with incident
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MCQ16: When an e.m wave passes from a rarer medium to a denser medium (n1< n2), the ratio EoR/Eo1 will be negative physically it means that  Answer: The reflected wave is 180 degree out of phase with the incident
MCQ17: Who among the following scientist demonstrated the existence of electromagnetic waves? Answer: Bose, 1895
MCQ18: By measuring the wavelength and frequency of electromagnetic waves, it was proved that light is an electromagnetic waves. This experiment was demonstrated by
Answer: Hertz
MCQ19: The zero wavelength approximation of wave optics is known as  Answer: Geometrical optics
MCQ20: The quantity L= $\hat{E}f$ ndl is called Answer: Optical path length
MCQ21: A plane electromagnetic wave can be classified as  Answer: Transverse wave
MCQ22: What is the general characteristic of wave motion? Answer: Wave carries energy
MCQ23: The major difference between Human eye and camera is  Answer: Eye has no photo film
MCQ24: Gauss' divergence theorem relates: Answer: Surface integral to volume integral
MCQ25: The ability of the eye lens to change its focal control is called  Answer: Accommodation
MCQ26: The common eye defect of elderly people is called  Answer: Prestyopia
MCQ27: The process by which our eyes automatically make adjustments by radial movement of two eyeballs is called Answer: Convergence
MCQ28: Although vision begins in the eye, but perception takes place in where? Answer: Brain
MCQ29: The purple coloured photosensitive part of the retina is called Answer: Rhodopsin
MCQ30: The violet coloured photosensitive pigment of the retina is called  Answer: Iodopsin

MCQ31: The two major factors that determines vision are  Answer: Physical and physiological phenomena
MCQ32: The vector equation given by S=E x H is called Answer: Stoke vector
MCQ33: The transparent window of the eye is calledAnswer: Cornea
MCQ34: From the vector S, E and H are: Answer: Mutually orthogonal
MCQ35: Which of the following equation is true about Poynting vector Answer: S = E/ H
FBQ1: In the electromagnetic spectrum, the region having values ranging from 1 to 10^6 m are referred to as waves.  Answer: radio
FBQ2: Light exhibits nature. Answer: Dual
FBQ3: A ray of light chooses a path of extremum between two points is known as
Answer: Fermat's principle
FBQ4: If an electromagnetic wave is incident from a denser medium on the interface separating it from a rarer medium (n1>n2) the ratio EoR/EoI is positive, it means Answer: No phase change
FBQ5: The perceptual correlate for variations in wavelength is called  Answer: hue
FBQ6: The ability to sense only general level of light is known as  Answer: Photosensitivity
FBQ7: The amount of energy reaching a receiver or given cross sectional area per second is called Answer: Intensity
FBQ8: Red,,  and blue are classified as primary colours . Answer: green
FBQ9: When a monochromatic blue light is mixed with a monochromatic yellow light we obtain Answer: colourless grey
FBQ10: The opponent colour theory proposed that red, yellow, and

colours as primary colours Answer: green and blue
FBQ11:of light involves the formation of sharp images and their interpretation. Answer: Perception
FBQ12: The cannot see under water because the refractive index of cornea is greater than the water. Answer: human eye
FBQ13: The two major factors that determines vision are  Answer: physical and physiological phenoma
FBQ14: wave cannot be polarised. Answer: sound
FBQ15: When the sun is 37â□° above the horizontal, the light reflected by a lake should be completely Answer: linearly polarized
FBQ16: Which of the following specialization in medicine are responsible for the study of structure, functions and diseases of the eye Answer: Opthalmologist
FBQ17: Cellophane is used as polariser because is optically  Answer: Anistropic
FBQ18: The process from the image formation to its perception by the brain is called Answer: sensual process
FBQ19: When an incident unpolarised light splits into two rays inside the crystal, the ordinary ray gets totally reflected at the Canada balsam surface if the incident angle is
Answer: 69â□°
FBQ20: The study of the structure, functions and diseases of the eye is called  Answer: ophthalmology
FBQ21: Which animal is more acute in view Answer: Hawk
FBQ22: The process by which the eye adjusts to see the near and far objects is called
Answer: accommodation
FBQ23: The aperture of a camera plays the same role as the of the eye. Answer: Iris
FBQ24: The amount of light energy reaching a receiver per given cross-sectional area

every second is called Answer: Intensity
FBQ25: The amount of light reaching the eye directly from the source is called Answer: illuminance
FBQ26: Human eye can be referred as Answer: Sense of seeing
FBQ27: Light can be classified as Answer: Transverse electromagnetic wave
FBQ28: The five cells that can be found in the retina are called  Answer: neuronal cells
FBQ29: The light sensitive pigments of photoreceptors are formed from  Answer: Vitamin C
FBQ30: The fact that light travels at the speed of 3.0 x 108ms-1 is a consequence of .
Answer: Maxwell's law
FBQ31: The chemically synthesized polarisers are fabricated in the form of plastic sheets and are known as  Answer: Polaroids
FBQ32: The of Brewster angle is equal to the ratio of the refractive indices of the media at whose interface incident light is reflected.  Answer: Tan
FBQ33: The path difference between the o- and e- waves in a birefringent device depends on its Answer: Thickness
FBQ34: When light falls on a calcite crystal, it splits into Answer: 2
FBQ35: Which part of the human eye is responsible for the protection its inner parts and withstands the intraocular pressure in the eye?  Answer: Sclera
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