

Mother Teresa Mission Higher Secondary School

Holiday Homework (2019-20)

Subject- Physics

Class- VII

Name-

- 1) What is the density of an object that has a mass of 92 grams and volume of 40 mL?
(a) 52g/mL (b) 0.04g/mL (c) 2.3 g/mL (d) 132 g/mL
- 2) Gloria needs to find the density of a cube. Each side of the cube measure 3cm and the mass of the cube is 12g. what is the approximate density of the cube?
(a) 0.4 g/cm³ (b) 1.3 g/cm³ (c) 4 g/cm³ (d) 1.8 g/cm³
- 3) Stella's nephew has plastic blocks that he enjoys playing with one of the blocks has a mass of 15g and a volume of 5mL. Find the density of the block.
- 4) Maria's mom gave her an apple that has mass of 90g and a volume of 30cm³. What is the apple's density?
- 5) I find a rock that has a volume of 15cm³ and a mass of 45g. What is the density of the rock?
- 6) In what units would you measure the following.
(a) Mass of person (b) Mass of electron
(c) Mass of loaded truck
- 7) Convert the following: (a) 2 kg into g (b) 3 Kg into kgf
- 8) Express 1 metric tonne in kg.
- 9) What is the mass of 2500 ml of pure water at 40C.
- 10) 5l g Kerosene oil is found to weight 6.60 kg. Find the density of Kerosene oil in:
(a) CGS unit (b) SI unit
- 11) Which of the following is true of visible light?
(a) Its waves are used for radio broadcasts
(b) It is also called X-ray.
(c) It is the largest portion of the electromagnetic spectrum.
(d) Its waves hit on objects and are either absorbed or reflected.
- 12) Which is the best description of the nature of light.
(a) Light always behaves like waves.
(b) Light always behaves like particles.
(c) Light sometimes behaves like waves and at other times like particles.
(d) Light never behaves like either waves or particles.
- 13) If an object reflects red light and absorbs all other colors, what color does the objects appear to be?
(a) White (b) Black (c) Red (d) All colors except red
- 14) When light strikes a convex lens has, the light beams.
(a) Diverge or spread out (b) Become wiggly lines
(c) Converge and becomes focused into one beam
(d) None of these
- 15) Compared to visible light, the wavelength of UV light is
(a) Longer (b) Shorter (c) The same (d) Brighter
- 16) Unlike sound waves, light waves
(a) Carry energy
(b) Must travel through matter
(c) Travel as compression waves
(d) Travel as transverse waves
- 17) Light does not pass through an object at all that is
(a) Opaque (b) Translucent (c) Shiny (d) Transparent

- 18) White light can be separated into different colors by using a
(a) Mirror (b) Convex (c) Concave lens (d) Prism
- 19) Light shines clear through objects that are
(a) Opaque (b) Translucent (c) Shiny (d) Transparent
- 20) What is the difference between a lens and a mirror?
(a) A mirror refracts light (b) A mirror bends light inward
(c) A mirror reflects light while lens refracts light (d) None of these
- 21) The lens that is thicker in the middle than at the edges is
(a) Convex (b) Concave
(c) Light-reflecting (d) Corrective
- 22) When light passes from one material to another, you may observe
(a) Spectrum (b) Rays (c) Refraction (d) Wavelength
- 23) Objects that emit light are:
(a) Illuminated (b) Luminous
(c) Opaque (d) Transparent
- 24) If an apple looks green, what color of light does it reflect?
(a) Red (b) Green (c) Blue (d) None of these
- 25) Electromagnetic waves move at the speed of light.
(a) True (b) False
- 26) The 3 primary colors of light are red, blue and yellow.
(a) True (b) False

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- 27) The weight of a body is the force of _____ acting upon it.
- 28) 1 atomic mass unit (U) = _____ kg
- 29) 1 kg is the mass _____ ml of water at 4⁰C.
- 30) The SI unit of density is _____.
- 31) The SI unit of relative density is _____.
- 32) 1 kg/m³ = _____ g/cm³
- 33) The density of ice _____ on melting.
- 34) The SI unit of mass _____.