

Physics Q&A – 21th July 2017:

Q1. One astronomical unit is the average distance between

- (a) Earth and the Sun
- (b) Earth and the Moon
- (c) Jupiter and the Sun
- (d) Pluto and the Sun

Ans: A

Q2. Decibel is the unit of

- (a) speed of light
- (b) intensity of sound
- (c) intensity of heat
- (d) None of these

Ans: B

Q3. Which of the following is not a vector quantity?

- (a) speed
- (b) velocity
- (c) torque
- (d) displacement

Ans: A

Q4. When a steel ball is placed on the surface of mercury, it does not sink because

- (a) of the surface tension of mercury
- (b) mercury is a semisolid
- (c) of the high viscosity of mercury
- (d) the density of mercury is greater than that of steel

Ans: D

Q5. Harry Brearley has invented

- (a) Electric iron
- (b) Electromagnet
- (c) Stainless Steel
- (d) Gramophone

Ans: C

Q6. The absorption of ink by blotting paper involves

- (a) capillary action phenomenon
- (b) viscosity of ink
- (c) siphon action
- (d) diffusion of ink through the blotting

Ans: A

Q7. Light year is a unit of

- (a) Time
- (b) Light

- (c) Distance
 - (d) Intensity of light
- Ans: C

- Q8. Pa(Pascal) is the unit for
- (a) thrust
 - (b) pressure
 - (c) frequency
 - (d) conductivity
- Ans: B

- Q9. In vacuum the speed of light depends upon
- (a)Wavelength
 - (b)Velocity of the source of light
 - (c)Frequency
 - (d)None of these
- Ans: D

- Q10. The amount of light reflected depends upon the
- (a) Nature of the surface
 - (b) Smoothness of the surface
 - (c) Nature of material of object
 - (d) All of the above
- Ans: D

- Q11. A well cut diamond appears bright because of
- (a) Dispersion
 - (b) Total internal reflection
 - (c) Its emit light
 - (d) Radioactive
- Ans: B

- Q12. When a ray or light enters a glass slab from air
- (a) Its wavelength increase
 - (b) Its wavelength decrease
 - (c) Its frequency increase
 - (d) Both are increases
- Ans: B

- Q13 "Soap helps in the cleaning of clothes because "
- (a) It reduces surface tension
 - (b) It increases surface tension
 - (c) It absorbs the dirt
 - (d) Of some other reason'
- Ans: A

Q14 "How is the pressure cooker work? "

- (a) Heat cannot escape from the cooker
- (b) Low pressure inside the cooker rises the boiling point of water
- (c) High pressure inside the cooker rises the boiling point of water
- (d) Steam inside the cooker makes food to cook with ease

Ans: C

Q15 "Which one of the following can convert the alternating current into direct current? "

- (a) Transformer
- (b) Motor
- (c) Dynamo
- (d) Rectifier

Ans: D

