

**Physics Q&A – 23<sup>rd</sup> July 2017:**

Q1. Which zone of a candle flame is the hottest?

- (a) Dark innermost zone
- (b) Outermost zone
- (c) Middle luminous zone
- (d) Central zone

Ans: b

Q2. The image of the object that we see, forms on the retina of our eyes is—

- (a) always erect
- (b) always inverted
- (c) erect or inverted depends upon the intensity of light
- (d) erect or inverted depends upon the age of the person

Ans: b

Q3. Evening Sun is not as hot as the midday sun. What is the reason?

- (a) In the evening, radiation travel slowly
- (b) In the evening, the temperature of the sun decreases
- (c) Ozone in atmosphere absorbs more light in the evening
- (d) In the evening, radiations travel larger distance through atmosphere

Ans: d

Q4. A body is thrown vertically upwards and then falls back on the ground. When its potential energy is maximum?

- (a) on the ground
- (b) at the maximum height
- (c) during the return journey
- (d) both on the ground and at the maximum height

Ans: b

Q5. The magnet is strongest near the-

- (a) on equator point from the poles of the magnet
- (b) ends of the magnet
- (c) centre of magnet
- (d) None of the above

Ans: b

Q6. A body travelling with a speed of more than the velocity of sound in air is said to travel with—

- (a) supersonic speed
- (b) hypersonic speed
- (c) ultrasonic speed
- (d) infrasonic speed

Ans: a

Q7. Which of the special technique is used in ships to calculate the depth of ocean beds?

- (a) LASER
- (b) SONAR
- (c) sonic boom
- (d) reverberation

Ans: b

Q8. What is the SI unit of electrical conductance?

- (a) Volt
- (b) Watt
- (c) Siemens
- (d) Ampere

Ans: c

Q9. Which of the following is a conductor of electricity?

- (a) Silver
- (b) Copper
- (c) Aluminium
- (d) All of the above

Ans: d

Q10. Why is tungsten used exclusively for the filament of an incandescent lamp?

- (a) Tungsten can be drawn into thin wires which in turn offer high resistance
- (b) Tungsten has a fairly good resistivity
- (c) The melting point of tungsten is very high
- (d) All of these

Ans: d

Q11. Why ammeter is likely to burn out if you connect it in parallel?

- (a) It has high voltage
- (b) It has high resistance
- (c) It has low resistance
- (d) It has low voltage

Ans: c

Q12. What will happen to current passing through a resistor if the potential difference across its ends is doubled and the resistance is halved?

- (a) Becomes four times
- (b) Becomes halved
- (c) Remain unchanged
- (d) Becomes one fourth

Ans: a

Q13. Which of the following has the highest refractive index?

- (a) Glass
- (b) Water
- (c) Pearl

(d) Diamond

Ans: d

Q14. For a plane mirror, magnification (m)= \_\_\_\_\_

(a) 0

(b) 1

(c)  $\pm 1$

(d)  $\leq 0$

Ans: b

Q15. We can see objects because of which phenomena?

(a) reflection

(b) refraction

(c) transmission

(d) diffraction

Ans: a

