



## Top-20 SSC CPO Physics Questions PDF

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### Instructions

For the following questions answer them individually

#### Question 1

Which of the following is not a measuring device?

- A barometer
- B thermometer
- C vernier caliper
- D electric diode

**Answer:** D

#### Explanation:

An electric diode is an electrical component to conduct current and is not a measuring device.

#### Question 2

The speed of light in glass slab is \_\_\_\_

- A  $3 \times 10^8$
- B  $1.96 \times 10^8$
- C  $2 \times 10^8$
- D  $2.04 \times 10^8$

**Answer:** C

#### Explanation:

We know,

The refractive index of glass slab =  $1.5$  or  $\frac{3}{2}$

and speed of light is inversely proportional to the refractive index of the medium

i.e, speed of light in medium(v) =  $\frac{\text{speed of light in vacuum}(c)}{\text{refractive index}(n)}$

or,  $v = \frac{c}{n}$

So, speed of light in glass slab =  $\frac{3 \times 10^8}{2}$

Or,  $2 \times 10^8$

#### Question 3

When particle executing SHM is at the extreme end then the velocity of the particle is \_\_\_\_

- A Zero
- B Maximum
- C Minimum
- D Cannot be determined

**Answer:** A

#### Explanation:

It will be 0.

SHM is if a particle repeats its motion about a fixed point after a regular time interval in a way such that at any moment the acceleration of the particle is directly proportional to its displacement from the fixed point at that moment and is always directed towards the fixed point then the motion is called as Simple Harmonic Motion (SHM)

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### Question 4

Swimming is associated with which Newton's law of motion?

- A I law
- B II law
- C III law
- D It is not associated with any of the Newton's law

Answer: C

### Explanation:

III law states that to every action there is an equal and opposite reaction. Swimming is associated with the third law of motion.

### Question 5

'Hertz' is a unit of

- A Velocity
- B Wavelength
- C Frequency of Sound Waves
- D Magnetic field

Answer: C

### Question 6

A light-year is a unit of

- A time
- B distance
- C velocity
- D energy

Answer: B

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### Question 7

'Parsec' is a unit of

- A time
- B speed

C distance

D sound

**Answer: C**

#### Question 8

**Barometer measures**

A atmospheric moisture

B wind velocity

C amount of rainfall

D atmospheric pressure

**Answer: D**

#### Question 9

**Neil Armstrong brought back a rock from the moon. On earth**

A The mass of the rock will change

B The weight of the rock will change

C Mass and weight will change

D None of the above

**Answer: B**

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#### Question 10

**When a Pepsi bottle is opened, the gas fizzes out because it obeys**

A Hess's Law

B Henry's Law

C Kohlrausch's Law

D None of the above

**Answer: B**

#### Question 11

**The instrument used to measure the speed of the wind is**

A Altimeter

B Anemometer

C Chronometer

D Dosimeter

Answer: B

**Question 12**

A bullet of mass 'm' and velocity 'a' is fired in to a large block of wood of mass 'M'. The final velocity of the system is:

- A  $\frac{Ma}{(m+M)}$
- B  $\frac{(m+M)a}{M}$
- C  $\frac{ma}{(m+M)}$
- D  $\frac{(m+M)a}{m}$

Answer: C

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**Question 13**

Which of the following property of sound is affected by change in air temperature?

- A Amplitude
- B Wavelength
- C Frequency
- D Intensity

Answer: C

**Question 14**

When number of turns in a coil is tripled, without any change in the length of coil, its self-inductance becomes?

- A one-third
- B six times
- C three times
- D nine times

Answer: D

**Question 15**

The intensity ratio of waves is 25:9. What is the ratio of their amplitudes?

- A 25 : 9
- B 5 : 3
- C 3 : 5
- D 50 : 18

Answer: B

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### Question 16

The instrument used to measure pressure:

- A Anemometer
- B Aneroid barometer
- C Thermometer
- D Hygrometer

**Answer: B**

### Question 17

The lowest temperature is recorded by:

- A Mercurial Thermometer
- B Alcohol thermometer
- C Maximum reading thermometer
- D Minimum reading thermometer

**Answer: B**

### Question 18

The resistance of an ideal voltmeter is;

- A infinite
- B zero
- C high
- D low

**Answer: A**

**Explanation:**

**Resistance of an ideal voltmeter** is Infinite and that of an ammeter is zero.

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### Question 19

Mass number is the sum of:

- A Electrons and Protons
- B Protons and neutrons
- C Electron and neutrons
- D Only ptotons

**Answer: B**

**Question 20**

A sufficiently large scale map indicating the detailed surface features of an area including relief is called:

- A Relief map
- B Chorographical map
- C Topographical map
- D Wall map

Answer: C

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