

## General Science Physics Question paper – Set 1

1. .... is also known as law of Galileo

- 1.Newton's Second Law
- 2.Laws of motion
- 3.Newton's Third Law
- 4.Newton's First Law
- 5.All of these

### Answer & Explanation

Answer – **4. Newton's First Law**

#### Explanation :

First law – Everybody retains its state or state of motion until an external force is applied on it

2. Which of the following is unit of Luminous intensity ?

- 1.Mole
- 2.Candela
- 3.Kelvin
- 4.Kilogram
- 5.None of these

### Answer & Explanation

Answer – **2.Candela**

#### Explanation :

Luminous intensity is a measure of the wavelength-weighted power emitted by a light source in a particular direction per unit solid angle

3. According to the law of conservation of energy which of the following is true ?

- 1.Energy can be created by many methods2.
- 2.Energy can't be transformed into any other form
- 3.Energy can't be destroyed
- 4.Energy can either be created or be destroyed
- 5.Both 1 and 3

#### Answer & Explanation

Answer – **3.Energy can't be destroyed**

#### Explanation :

Law of conservation of energy : Energy can neither be created nor be destroyed but it can be transformed from one form to another form

4. **The pressure exerted anywhere at a point of confined fluid is transmitted equally and undiminished in all directions throughout the liquid is known as**

- 1.Pascal's law
- 2.Kepler's law
- 3.Newton's law
- 4.Stefan's law
- 5.None of these

#### Answer & Explanation

Answer – **1.Pascal's law**

#### Explanation :

Pascal's law is also known as principle of transmission of fluid-pressure

5. **The speed of the light is**

1. $3 \times 10^8 \text{ m/s}$
2. $2.8 \times 10^8 \text{ m/s}$
3. $3.3 \times 10^8 \text{ m/s}$
4. $4.6 \times 10^8 \text{ m/s}$
- 5.None of these

#### Answer & Explanation

Answer – **3.  $3 \times 10^8 \text{ m/s}$**

#### Explanation :

Light is a transverse wave

**6. Optical fibre following ..... to carry the information in the form of light**

- 1.Law of scattering
- 2.Refraction law
- 3.Reflection law
- 4.Total internal reflection
- 5.None of these

**Answer & Explanation**

Answer – **4.Total internal reflection**

**Explanation :**

Total internal reflection occurs when a propagating wave strikes a medium boundary at an angle larger than a particular critical angle with respect to the normal to the surface.

**7. Twinkling of stars is based upon.....**

- 1.Reflection
- 2.Refraction
- 3.Scattering
- 4.Both Reflection and Refraction
- 5.None of these

**Answer & Explanation**

Answer – **2.Refraction**

**Explanation :**

Refraction is the bending of a wave when it enters a medium where its speed is different

**8. Which of the following denotes Ohm's law ?**

1. $I = VR$
2. $R/I = V$
3. $V = IR$
4. $R = VI$
- 5.None of these

**Answer & Explanation**

Answer –  **$3.V = IR$**

**Explanation :**

Current is flowing through the conductor is direct proportional to the potential difference across its 2 ends.

9. **The process of splitting of a heavy molecules into 2 or more lighter molecules is known as**

- 1.Nuclear Fission
- 2.Nuclear Fusion
- 3.Nuclear Process
- 4.Nuclear reaction
- 5.None of these

**Answer & Explanation**

Answer – **1.Nuclear Fission**

**Explanation :**

Fission – an atom splits into smaller parts, discovered by by German Otto Hahn

10. **Depth of the Ocean is measured by**

- 1.Fathometer
- 2.Mariner's Compass
- 3.Radar
- 4.Tachometer
- 5.None of these

**Answer & Explanation**

Answer – **1.Fathometer**

**Explanation :**

Fathometer uses sound waves to determine the depth of water.It unit is Fathom