

### General Science(Physics)

1. **The normal temperature of human body is .....**

- 1.  $73^{\circ}\text{C}$
- 2.  $30^{\circ}\text{C}$
- 3.  $37^{\circ}\text{C}$
- 4.  $100^{\circ}\text{C}$
- 5. None of these

#### Answer & Explanation

Answer –  **$37^{\circ}\text{C}$**

#### Explanation :

Normal body temperature as an oral temperature of  $98.6^{\circ}\text{F}$  ( $37^{\circ}\text{C}$ ).  
This is an average of normal body temperatures.

2. **Density of water is maximum at .....**

- 1.  $7^{\circ}\text{C}$
- 2.  $3^{\circ}\text{C}$
- 3.  $4^{\circ}\text{C}$
- 4.  $2^{\circ}\text{C}$
- 5. None of these

#### Answer & Explanation

Answer –  **$4^{\circ}\text{C}$**

#### Explanation :

Density of a substance is defined as the ratio of its mass to its volume

Unit =  $\text{kg}/\text{m}^3$

3. **What is the SI unit of pressure ?**

- 1.  $\text{N}/\text{sm}^2$
- 2.  $\text{N}/\text{m}^2$
- 3.  $\text{kg}/\text{m}^2$
- 4.  $\text{N}/\text{m}^3$
- 5. None of these

#### Answer & Explanation

Answer – **2.N/m<sup>2</sup>**

#### Explanation :

Pressure is defined as the force acting normally on unit area of the surface

Unit = N/m<sup>2</sup> or Pascal. A atmospheric pressure is measured by Barometer

#### 4. **Slow fall in barometric reading is the indication of .....**

- 1.Rain
- 2.Storm
- 3.Clear Weather
- 4.Normal Weather
- 5.None of these

#### Answer & Explanation

Answer – **1.Rain**

#### Explanation :

The slow fall in barometric reading is the indication of rain

The slow rise in barometric reading is the indication of clear weather

The sudden fall in barometric reading is the indication of storm

#### 5. **The angle of contact is ..... for pure water and clean glass**

- 1.60°
- 2.45°
- 3.90°
- 4.0°
- 5.None of these

#### Answer & Explanation

Answer – **4.0°**

#### Explanation :

The angle of contact is 0° for pure water and clean glass. It is 90° for

silver,  $8^\circ$

for ordinary water and  $135^\circ$  for mercury

**6. Which does not require the medium for their propagation ?**

1. Electromagnetic waves
2. Transverse Waves
3. Longitudinal Waves
4. Mechanical Waves
5. None of these

**Answer & Explanation**

Answer – **1. Electromagnetic waves**

**Explanation :**

Electromagnetic waves do not require medium for their propagation.

Ex – Cathode rays, Alpha and Beta rays

**7. Which require the medium for their propagation ?**

1. Electromagnetic waves
2. Sound waves
3. Mechanical Waves
4. Shock waves
5. Both 1 and 2

**Answer & Explanation**

Answer – **5. Both 1 and 2**

**Explanation :**

Mechanical Waves require the medium for their propagation. These are 2 types. They are Longitudinal and Transverse waves

**8. The speed of Supersonic wave is measured in .....**

1. Avogadro Number
2. Energy
3. Mach Number
4. Wavelength
5. None of these

### Answer & Explanation

Answer – **3.Mach Number**

#### Explanation :

Mach number is the ratio of speed of source to the speed of sound

Mach number  $>1$ - Supersonic

Mach number  $>5$ - Hypersonic

Mach number  $<1$  – Body is moving with supersonic

### 9. Pyrometer can't measure the temperature below

.....

1.800 °C

2.500 °C

3.1000 °C

4.750 °C

5.None of these

### Answer & Explanation

Answer – **1.800 °C**

#### Explanation :

Pyrometer measure the temperature of a body by measuring the radiation emitted by the body.It can't measure the temperature below 800 °C

### 10. Freezing point of Mercury is.....

1.-21°C

2.-39°C

3.-19°C

4.39°C

5.None of these

### Answer & Explanation

Answer – **2.-39°C**

#### Explanation :

Freezing point of Mercury is 39°C.To measure the temperature below

-39°C alcohol thermometer is used. Freezing point of alcohol is -114°C

