



# SmartKeeda

The Question Bank

Presents

## TestZone

India's least priced Test Series platform

JOIN

### 12 Month Plan

2017-18 All Test Series

@ Just

# ₹ 399/-

300+ Full Length Tests

- Brilliant Test Analysis
- Excellent Content
- Unmatched Explanations

JOIN NOW

# Physics Questions for CDS, CGL Tier 1 and 10+2 Exams

## Physics Quiz 2

Directions: Study the following questions carefully and choose the right answer.

**1. If two conducting spheres are separately charged and then brought in contact**

- A. The total energy of the two spheres is conserved
- B. The total charge on the two spheres is conserved
- C. Both the total energy and the total charge are conserved
- D. The final potential is always the mean of the original potential of the two spheres

**2. The Celsius temperature is a/an**

- A. Relative temperature
- B. Absolute temperature
- C. Specific temperature
- D. Approximate temperature

**3. Light Emitting Diode (LED) converts**

- A. Light energy into electrical energy
- B. Electrical energy into light energy
- C. Thermal energy into light energy
- D. Mechanical energy into electrical energy

**4. Dual Energy X-ray Absorptiometry (DEXA) is used to measure**

- A. Spread of solid tumour
- B. Bone density
- C. Ulcerous growth in stomach
- D. Extent of brain hemorrhage

**5. The main source of energy is sun is**

A. Nuclear fusion    B. Nuclear fission    C. Chemical reaction

D. Mechanical energy

**6. By what mechanism does scent spread all over the room if the lid is opened?**

A. Pressure in the bottle    B. Compression from the bottle    C. Diffusion

D. Osmosis

**7. Which one among the following is not a correct statement?**

A. Cathode rays are negatively charged particles

B. Cathode rays are produced from all the gases

C. Electrons are basic constituents of all the atoms

D. Hydrogen ions do not contain any proton

**8. Which one among the following colours has the highest wavelength?**

A. Violet    B. Green    C. Yellow    D. Red

**9. Dispersion process forms spectrum due to white light falling on a prism. The light wave with shortest wavelength**

A. Refracts the most    B. Does not change the path    C. Refracts the least

D. Is reflected by the side of the prism

**10. Magnetic, electrostatic and gravitational forces come under the category of**

- A. Non-contact forces    B. Contact forces    C. Frictional forces  
D. Non-frictional forces



**Smartkeeda**  
The Question Bank

### Correct Answers:

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
B	C	B	B	A	C	D	D	A	A

### Explanations:

1.

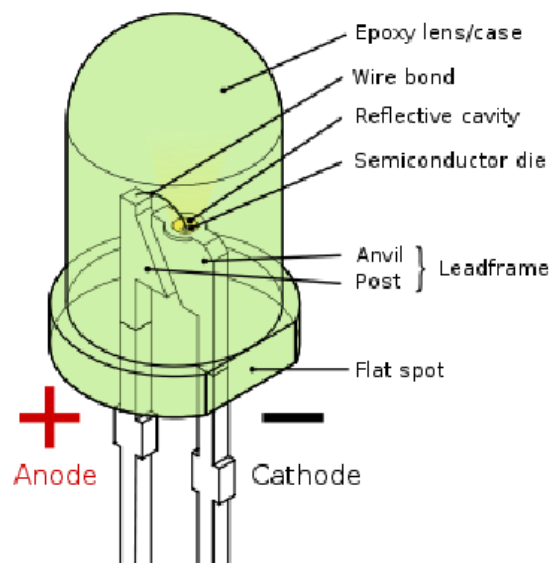
If two conducting spheres are separately charged and brought in contact, then the total charge on the two spheres is conserved. This is the law of conservation of charge.

2.

The degree Celsius ( $^{\circ}\text{C}$ ) can refer to a specific temperature on the Celsius scale as well as a unit to indicate a temperature interval, a difference between two temperatures or an uncertainty.

3.

Light Emitting Diode (LED) is semiconductor device, which converts electrical energy into light energy.

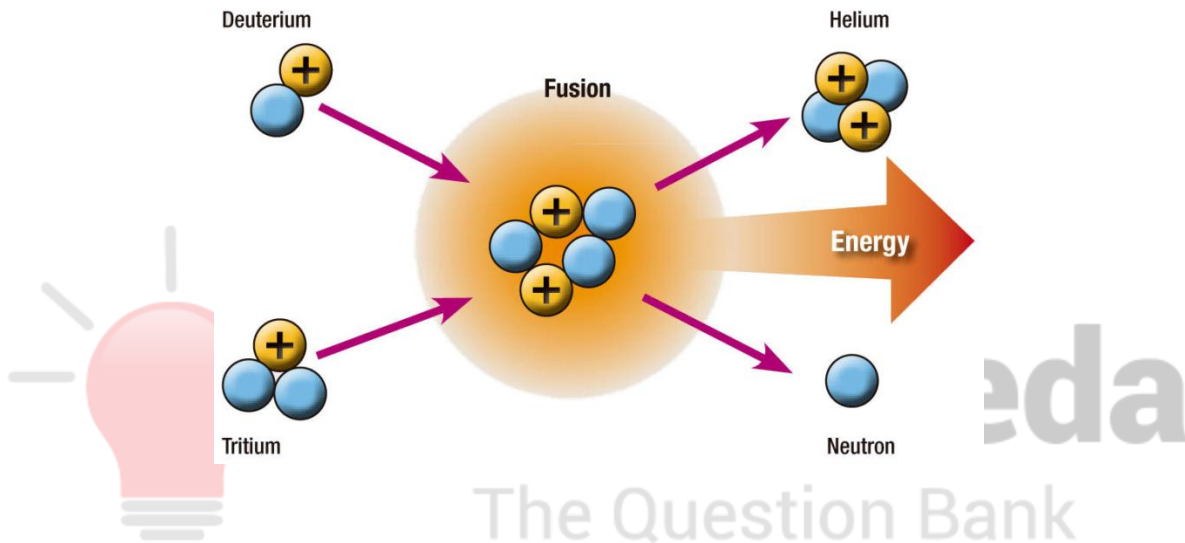


4.

Dual Energy X-ray Absorptiometry (DEXA) is used to measure the density or strength of bones.

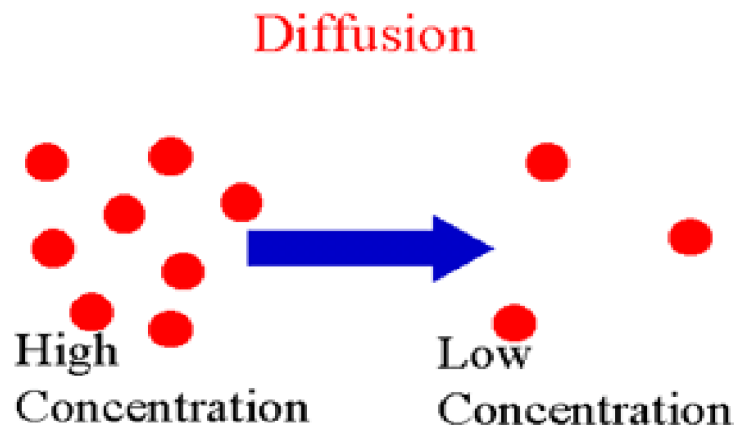
5.

The sun is the star at the centre of the solar system. It generates its energy by nuclear fusion of hydrogen nuclei into helium.



6.

Diffusion refers to the process by which molecules intermingle as a result of their kinetic energy of random motion.



**7.**

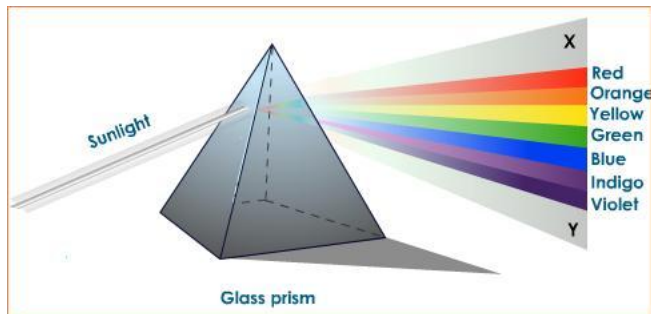
Cathode rays are negatively charged particles and are produced from all the gases. Also electrons, protons and neutrons are basic constituents of all the atoms, but hydrogen ion has one proton.

**8.**

The colour red has the highest wavelength and the colour violet has the shortest wavelength. Wavelength is inversely proportional to frequency. Red colour has shortest frequency and violet has highest frequency.

**9.**

The light wave with shortest wavelength refracts the most.



**10.**

All of these forces doesn't need any physical contact to exist.



# SmartKeeda

The Question Bank

प्रस्तुत करते हैं

## TestZone

भारत की सबसे क़िफ़ायती टेस्ट सीरीज़

अभी  
जुड़ें

### 12 Month Plan

2017-18 All Test Series

@ Just

# ₹ 399/-

300+ फ़ुल लेन्थ टेस्ट

- श्रेष्ठ विश्लेषण
- उत्कृष्ट विषय सामग्री
- बेजोड़ व्याख्या

अभी जुड़ें