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Physics Questions for CDS and SSC Exams (CGL Tier 1, 10+2 & Railway)

Physics Quiz 17

Directions: Study the following questions carefully and answer the questions given below.

1. The resistance of a conductor _____ and a semiconductor _____ on heating.

- A. Increases, decreases B. Increases, increases C. Decreases, increases
D. Decreases, decreases

2. the filament of a bulb is made up of?

- A. Mercury B. Zinc C. Tungsten D. Lead

3. The mass of an object on moon _____ in comparison to the mass on earth.

- A. Increases B. Decreases C. Remains same D. Cannot be determined

4. The speed of sound in the following media are V_a , V_b and V_c for air, water and steel. Arrange the speed of sound.

- A. $V_a > V_b > V_c$ B. $V_c > V_b > V_a$ C. $V_c > V_b > V_a$ D. $V_a > V_c > V_b$

5. What will be the initial velocity of a car which covers a distance of 200 km in 5 hours, having an acceleration of 4 km/hr and final velocity as 50 km/hr.

- A. 20 B. 30 C. 40 D. 50

6. The national physics labrotary is located in?

A. Pune B. Delhi C. Banglore D. Hyderabad

7. Which of the following instrument is used to measure heat radiation?

A. Radio micrometer B. Sphygomamometer C. Barometer D. Hygrometer

8. Which of the following waves is used in sonography?

A. Microwaves B. Ultrasonic waves C. Gamma D. Visible waves

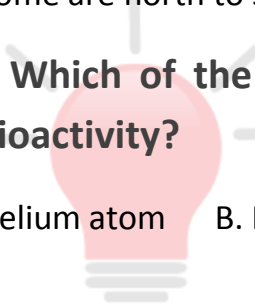
9. The direction of magnetic field inside a magnet is

A. North to south B. South to north C. Can be either ways

D. Some are north to south and some are south to north

10. Which of the following is an alpha particle which is emitted in radioactivity?

A. Helium atom B. Hydrogen atom C. Deuterium atom D. Lithium atom



Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	C	C	B	A	B	A	B	B	A

Explanations:**1.**

When the temperature of metallic conductor increases, the velocity of free electrons increases but it also cause increase in amplitude of vibration of metallic atoms which cause some extra hindrance or resistance in the path of free electron. Hence resistance increases in investing the temperature whereas the resistance of a semiconductor decreases with increase in temperature and vice versa.

Hence, option A is correct.

2.

The filament of a bulb is made up of tungsten because tungsten has a very high melting point. (3695 K),

Hence, option C is correct.

3.

The mass of an object remains the same anywhere in the universe. What varies is the weight of an object which changes because of the change in gravity. Therefore, mass remains same on moon.

Hence, option C is correct.

4.

The speed of sound is highest In solids followed by liquids and then by air. Hence, B is the correct option.

Hence, option B is correct.

5.

We know $V = U + at$ where V is the final velocity, U is the initial velocity, a is the acceleration and t is the time. Hence, putting $V = 50$, $t = 5$, $a = 4$ we get u as 30 km/hr .

Hence, initial velocity is 30 km/hr

Hence, option A is correct.

6.

The national physics laboratory (NPL) is located In Delhi.

Hence, option B is correct.

7.

Radio micrometer is used to measure heat radiation.

Sphygmomanometer is used to measure blood pressure. Barometer is used to measure atmospheric pressure and hygrometer is used to measure the humidity.

Hence, option A is correct.

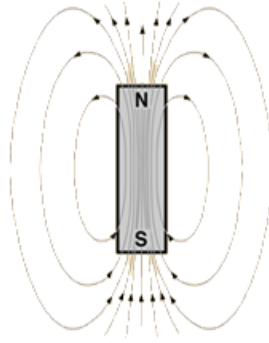
8.

Ultrasonic waves are used in sonography. Sonography is a painless medical procedure that uses high-frequency sound waves to produce visual images of organs, tissues, or blood flow inside the body.

Hence, option B is correct.

9.

The direction of magnetic field inside a magnet is from south to north and on the outside is from north to south. Below is an image depicting the same.



Hence, option B is correct.

10.

Alpha particle consists of a helium atom having 2 electrons, 2 protons and 2 neutrons.

Radioactive decay (also known as nuclear decay or radioactivity) is the process by which an unstable atomic nucleus loses energy by emitting radiation, such as an alpha particle, beta particle with neutrino. A material containing such unstable nuclei is considered radioactive

Hence, option A is correct.

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