

MULTIPLE CHOICE QUESTIONS

1. An electroscope is a device which is used to find if an object is
 - (a) charged
 - (b) magnetic
 - (c) free of cracks
 - (d) hot
2. Electric current is to be passed from one body to another. For this purpose the two bodies must be joined by
 - (a) cotton thread
 - (b) plastic string
 - (c) copper wire
 - (d) rubber band
3. The movement of the earth's plates causes
 - (a) cyclones
 - (b) lightning
 - (c) earthquakes
 - (d) thunderstorms
4. Two charged objects are brought close to each other. Choose the most appropriate statement from the following options:
 - (a) they may attract
 - (b) they may repel
 - (c) they may attract or repel depending on the type of charges they carry
 - (d) there will be no effect
5. Which of the following is not likely to cause Tsunami?
 - (a) A major nuclear explosion under sea
 - (b) Earthquake
 - (c) Volcanic eruption
 - (d) Lightning
6. The earth's plate responsible for causing earthquakes is
 - (a) the crust of the earth
 - (b) the mantle of the earth
 - (c) the inner core of the earth
 - (d) the outer core of the earth
7. Consider the list of terms given below:

(i) Seismic Zone	(iii) Mantle
(ii) Fault Zone	(iv) Inner Core

1. A list of mediums is given below.
- | | |
|------------|-------------|
| (i) wood | (iii) air |
| (ii) water | (iv) vacuum |

In which of these mediums can sound travel?

- | | |
|----------------------|-----------------------|
| (a) i & ii only | (c) iii & iv only |
| (b) i, ii & iii only | (d) ii, iii & iv only |
2. The loudness of sound depends on:
- | | |
|--------------------|----------------------|
| (a) its amplitude. | (c) its time period. |
| (b) its frequency. | (d) its speed. |
3. Which of the following statements are correct?
- (i) Sound is produced by vibrations.
 - (ii) Sound requires a medium for propagation.
 - (iii) Light and sound both require a medium for propagation.
 - (iv) Sound travels slower than light.
- | |
|-----------------------|
| (a) i & ii only |
| (b) i, ii & iii only |
| (c) ii, iii & iv only |
| (d) i, ii & iv only |
4. An object is vibrating at 50 hertz. What is its time period?
- | | |
|------------|------------|
| (a) 0.02 s | (c) 0.2 s |
| (b) 2 s | (d) 20.0 s |
5. In order to reduce the loudness of a sound we have to
- (a) decrease its frequency of vibration of the sound.
 - (b) increase its frequency of vibration of the sound.
 - (c) decrease its amplitude of vibration of the sound.
 - (d) increase its amplitude of vibration of the sound.
6. Loudness of sound is measured in units of
- | | |
|------------------|------------------------|
| (a) decibel (dB) | (c) metre (m) |
| (b) hertz (Hz) | (d) metre/second (m/s) |

MULTIPLE CHOICE QUESTIONS

1. The belief that the mother is completely responsible for the sex of the child is wrong because the child
 - (a) gets sex chromosome only from the mother.
 - (b) develops in the body of the mother.
 - (c) gets one sex chromosome from the mother and the other from the father.
 - (d) gets sex chromosome only from the father.
2. AIDS can spread from an infected person to another person through
 - (a) sharing food
 - (b) blood transfusion
 - (c) sharing comb
 - (d) a mosquito bite
3. Given below are events that lead to pregnancy and development of embryo.
 - (i) Fertilization of egg
 - (ii) Maturation of egg
 - (iii) Release of egg
 - (iv) Embedding of embryo in thickened uterine wall.

Which of the following options gives the correct order of sequence in which they occur?

- (a) i, ii, iii, iv,
 - (b) ii, i, iii, iv
 - (c) i, iv, ii, iii
 - (d) ii, iii, i, iv.
4. For the metamorphosis of tadpoles which of the following elements must be available in water?
 - (a) chlorine
 - (b) carbon
 - (c) sulphur
 - (d) iodine
 5. The most conspicuous visible change that occurs in boys during puberty is:
 - (a) development in voice box.
 - (b) increase in height.

(c) production of sperms.

(d) increased sweating.

6. Structures present in a cell which is responsible for determination of the sex of a baby is

(a) cytoplasm

(b) cell membrane

(c) nucleus

(d) chromosome

21. Given below are certain food items required for proper nourishment of adolescents. Name the nutrients present in the food items and write their functions.

S. No.	Food items	Major Nutrient	Functions
1.	Pulses and nuts		
2.	Oranges and Amla		
3.	Sugar, Roti		
4.	Oils		
5.	Vegetables		

24. Explain how lightning takes place?