



SHIKSHA CLASSES

Sub. : Science

Std. : VIIIth (CBSE)

Question Paper

12: Some Natural Phenomena

Marks : 30

Time : 1 Hour

SECTION (A)

(Each - 1 Mark)

Q.1 : Which of the following cannot be charged easily by friction?

- a) A plastic scale
- b) A copper rod
- c) An inflated balloon
- d) A woolen cloth.

OR

When a glass rod is rubbed with a piece of silk cloth the rod

- a) rod and the cloth both acquire positive charge.
- b) rod becomes positively charged while the cloth has a negative charge.
- c) cloth both acquire negative charge.
- d) rod becomes negatively charged while the cloth has a positive charge.

Q.2 : An electroscope is a device which is used to find if an object is

- a) charged
- b) magnetic
- c) free of cracks
- d) hot

OR

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

For question number 3 to 5 two statements are given one labeled Assertion (A) and other labeled Reason (R) select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below

- a) Both A and R are true and R is correct explanation of the assertion.
- b) Both A and R are true but R is not the correct explanation of the assertion.
- c) A is true but R is false.
- d) A is false but R is true.

Q.3 : **Assertion(A)** : electrical charge can be transferred from a charged object to another through a metal conductor.

Reason(R) : Metal is a bad conductor of electricity.

Q.4 : **Assertion(A)** : an earthquake is a sudden shaking or trembling of the earth which lasts for very short time.

Reason(R) : earthquake caused by a disturbance deep inside the earth crust.

Q.5 : **Assertion (A):** the seismic waves are recorded by seismograph instruments.
Reason(R) : the tremors produced waves on the surface of the earth called waves.

Q.6 : The movement of the earth's plates causes
a) cyclones b) lightning c) earthquakes d) thunderstorms

OR

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

Q.7 : Read the following question and answer any two questions from 7(i) to 7(iii) 2m
State whether the following are True or False.

i) Earthquakes occur all the time all over the world.
ii) The plates of the outermost layer of the earth are always in continuous motion.
iii) Tremors on the earth can also be caused by the eruption of a volcano.

Q.8 : Which of the following is not likely to cause Tsunami?
a) A major nuclear explosion undersea b) Earthquake
c) Volcanic eruption d) Lightning

Q.9 : 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

Q.10 : Consider the list of terms given below:
i) Seismic Zone ii) Fault Zone iii) Mantle iv) Inner Core
The boundaries of the earth's plate are known as
a) (i) & (ii) b) (i) & (iii) c) (iii) & (iv) d) (ii), (iii) & (iv)

Q.11 : The outermost layer of earth is called
a) mantle b) outer core c) crust d) inner core

Q.12 : Major earthquakes are less likely to occur in
a) North East India b) Rajasthan
c) Rann of Kutch d) Orissa

Q.13 : Consider the list of terms given below
i) Tsunami ii) Landslide iii) Floods iv) Lightning
Earthquakes can cause
a) (i), (ii) & (iii) b) (ii) & (iv) c) (ii), (iii) & (iv) d) (iii) & (iv)

Q.14 : The magnitude of an earthquake is measured in
a) Kelvin scale b) Celsius scale
c) Decibel scale d) Richter scale

SECTION (B)**(Each - 2 Mark)**

Q.15 : Sometimes, a crackling sound is heard while taking off a sweater during winters. Explain.

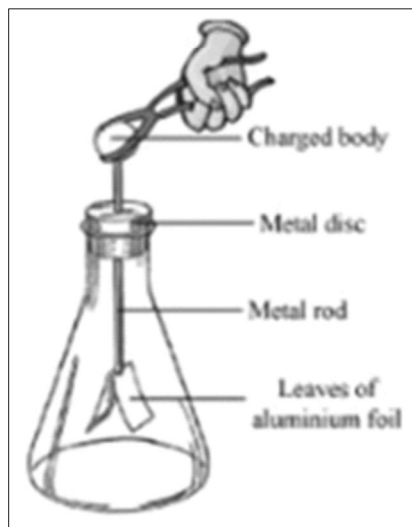
OR

Explain why a charged body loses its charge if we touch it with our hand.

Q.16 : Suggest two measures to protect ourselves from lightning.

SECTION (C)**(Each - 3 Mark)**

Q.17 : Describe with the help of a diagram an instrument which can be used to detect a charged body.

**OR**

Suppose you are outside your home and an earthquake strikes. What precaution would you take to protect yourself?

Q.18 : The weather department has predicted that a thunderstorm is likely to occur on a certain day. Suppose you have to go out on that day. Would you carry an umbrella? Explain.

SECTION (D)**(Each - 5 Mark)**

Q.19 : Write T against true and F against false in the following statements.

- i) Like charges attract each other.
- ii) A charged glass rod attracts a charged plastic straw.
- iii) Lightning conductors cannot protect a building from lightning.
- iv) Earthquakes can be predicted in advance.
- v) unlike charges attract each other

OR

Explain why a charged balloon is repelled by another charged balloon, whereas an uncharged balloon is attracted by another charged balloon.

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