#### **EXERCISE #1**

#### **EXERCISE QUESTIONS**

- **Q.1** Write T against true and F against false in the following statements:
  - (a) Like charges attract each other (T/F)
  - (b) A charged glass rod attract a charged plastic straw (T/F)
  - (c) Lightning conductor cannot protect a building from lightning (T/F)
  - (d) Earthquakes can be predicted in advance (T/F)
- Q.2 Sometime, a crackling sound is heard while taking off sweater during winters. Explain.
- Q.3 Explain why a charged body loses its charge if we touch it with our hand.
- Q.4 Name the scale on which the destructive energy of an earthquake is measured. An earthquake measures 3 on this scale. Would it be recorded by a seismograph? Is it likely to cause much damage?
- Q.5 Suggest three measures to protect ourselves from lightning.
- Q.6 Explain why a charged balloon is repelled by another charged balloon whereas an uncharged balloon is attracted by another charged balloon?
- Q.7 Describe with the help of a diagram an instrument which can be used to detect a charged body.
- **Q.8** List three states in India where earthquakes are more likely to strike.
- Q.9 Suppose you are outside your home and an earthquake strikes. What precaution would you take to protect yourself?

- Q.10 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.
- **Q.11** What is the use of step leader?
- Q.12 What to do mean by lightning conductor? Write their importance.
- Q.13 Why do we hear a thunder after lightning? Explain.
- Q.14 Give one importance property of electric charge.
- Q.15 Explain the working of seismograph with the help of a diagram.
- Q.16 Define seismology.
- **Q.17** Write the process of occurring of earthquake.
- Q.18 Explain the following terms with respect to earthquakes:
  - (i) Focus
- (ii) Epicentre
- Q.19 Write a note on the precautions we should take while designing buildings to reduce loss of life and property due to an earthquake.

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## EXERCISE # 2

	Single Correct Answer type Questions		effects of lightning	gs from the damaging		
Q.1	Which of the following cannot be charged easily by friction? (A) A plastic scale		(D) prevents clouds building and thus	from coming near a protects it		
	(B) A copper rod	0.0	TO 1.1			
	(C) An inflated balloon	<b>Q.8</b>		hunderstorm you should		
	(D) A woollen cloth.		(A) go and stand on a	nigh ground		
	(D) II woonen ciotii.		(B) stand under a tree			
Q.2	When a glass rod is rubbed with a piece of silk cloth the rod -		(C) take shelter indoor (D) all of the above	'S		
	(A) and the cloth both acquire positive charge.	Q.9	Charged objects exert	a on each other		
	(b) becomes positively charged while the cloth	<b>V.</b> ,	(A) cloud	(B) lightning		
	has a negative charge.		(C) force	(D) power		
	(c) and the cloth both acquire negative charge.		(5) 15133	(2) ps si		
	(d) becomes negatively charged while the	Q.10	We hear a thunder bec	ause		
	cloth has a positive charge.		(A) a lot of charge goe			
			(B) because lightning			
Q.3	Generally lower part of clouds has			ats up and expands all of		
	(A) positive charge		a sudden	1 1		
	(B) negative charge		(D) clouds bang against	st each other		
	(C) zero charge					
	(D) any type of charge	Q.11	The correct relation between speed of light (c) and speed of sound (v <sub>s</sub> ) is			
Q.4	Electric charges are		(A) $c < v_s$	(B) $c \ge v_s$		
	(A) only positive		$(C)$ c >> $v_s$	$(D) c = v_s$		
	(B) only negative		-	-		
	(C) either positive or negative	Q.12	Lighting occurs because of			
	(D) insulators	_	(A) rain	(B) electric discharge		
~ <b>-</b>			(C) wind	(D) angry Gods		
Q.5	In a neutral object, there are					
	(A) equal number of atoms	Q.13	Which instrument	is used to measure		
	(B) more positive charges than negative		earthquake waves?			
	charges		(A) Seismogram	(B) Seismograph		
	(C) more negative charge than positive charge		(C) Seismic wave	(D) Seismology		
	(D) equal number of positive and negative					
	charges	Q.14		e rocks on either side of		
<b>Q.6</b>	In the air the path of lightning goes up to a		the plate give way is called			
Q.v	temperature of about:		(A) focus	(B) epicenter		
	(A) $300^{\circ}$ C (B) $3,000^{\circ}$ C		(C) aftershock	(D) fault		
	(C) $300,000$ °C (D) $30,000$ °C	0.15		2.1 .1 .1 .1		
0.7	A lightning conductor	Q.15	The outermost layer of			
<b>Q.</b> 7	A lightning conductor (A) conducts light		(A) Mantle	(B) Core		
	(A) conducts fight (B) stops lightning		(C) Crust	(D) Center		

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The branch of science concerned with Q.16 earthquakes and related phenomena is called (A) Electrostatics (B) Optics

(B) Optics (D) Geology (C) Seismology

Q.17 Earthquakes are generally followed by (A) rain (B) after shocks

(C) thunder (D)lighting



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## **ANSWER KEY**

# **EXERCISE-2**

Ques	1	2	3	4	5	6	7	8	9	10
Ans	A	В	В	C	D	D	C	C	С	C
Ques	11	12	13	14	15	16	17			
Ans	С	В	В	A	С	С	В			



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