INTERNATIONAL INDIAN SCHOOL, BURAIDAH

2023-2024

CLASS: VIII WORKSHEET 1 (TERM-2) SUBJECT: SCIENCE

CHAPTER 11 FORCE AND PRESSURE				
I.	CHOOSE THE CO	DRRECT ANSWER FROM	THE GIVEN OPTIONS:-	
1.		is exerted by air around		
	a . Force	b . atmospheric pressu	re c. muscular force	d . friction
2.	Aexe	erted by an object on an	other is a force .	
	a. Push or pull	b .contact force	c. pressure	d. magnitude
3.	Muscular force is ca	illed a	force	
	a. Non contact	b. contact	c. gravitational	d. magnetic
4.	Force changes the _	of body		
	a. Motion	b. speed	c. shape	d. all of these
5.	1 kilogram weight is	•		
	a. 98 N		c. 0.98N	d. 0.098N
6.	Pressure is equal to			
	a. Area /force	•	c. volume/force	d. force /volume
7.	A push or pull on ar		_	
	a. Pressure	b. push-pull	c. force	d. all of the above
ANSW	ERS : 1b , 2a , 3b , 4d	l , 5b , 6b , 7c		
II.	FILL UP THE BLA	NKS:-		
1.	Force per unit area is called			
		as well as dire	ctions.	
	The pressure exerted by air around us is known aspressure.			pressure.
4.	and ga	ases exert pressure on tl	ne walls of their containe	ers.
5.	The envelope of air	is known as	·	
ANSWERS: 1. Pressure 2. Magnitude 3. Atmospheric 4. Liquids 5. Atmosphere				
III.	NAME THE FOLI	LOWING:		
			oody on another charged	d or uncharged body.
	Name the force that is exerted by charged body on another charged or uncharged body. Name the SI unit of force.			
3.	Force per unit area.			
4.	Name the force used in removing iron scrap from a heap of mixed scrap.			
5.	Opening the door is	an example of which ty	pe of force.	
ANSW	ERS: 1.electrostatic f	orce 2.Newton 3. Pre	ssure 4. Magnetic 5.	Contact force

IV. <u>DEFINE</u>:

- 1.Muscular force : The force resulting due to the action of muscles . e.g. Lift a bucket of water
- 2. Atmospheric Pressure : The pressure exerted by the air that is extending upto many kilometers above the surface of the earth. E.g. pressure exerted on rubber sucker
- 3. Contact force: A contact force is any force that occurs as a result of two objects making contact with each other. E.g. pushing a bag

	making contact with each other. E.g. pushing a bag			
	4. Pressure: The force acting on a unit area of a surface . e.g. pushing a nail into a			
	wooden plank			
	CHAPTER 13 SOUND			
	I. CHOOSE THE CORRECT OPTION:			
	1. Vibration in a body produces			
	a. Sound / b. energy c. heat d. none of these			
	2. A shehnai produces sound from			
	a. Vibrating Strings b. vibrating membrane			
	c. vibrating air column / d. none of these			
	3. The unit of frequency is			
	a. Hertz / b. Hertz/sec c.Hertz/min d.Hertz/hour			
	4. When the amplitude is small the sound produced is			
	a. loud b. feeble / c. low pitched d. none of these			
	5. Noise pollution causes			
	a. Lack of sleep b. hypertension c. anxiety d. all of these			
ANSW	YERS: 1a , 2c , 3a , 4b , 5d			
	II. FILL UP THE BLANKS:			
1.	Unpleasant sound is called			
2.	In human beings , the vibration of theproduces sounds.			
	Larger theof vibration , the louder is the sound.			
	The number of oscillations or vibration per second is called theof			
	the oscillations.			
5.	Sound travels through a			
	The eardrum senses the vibration of			
ANSW	YESRS: 1. Noise 2. Vocal cords 3. Amplitude 4. Frequency 5. Medium 6. Sound			
	III. ANSWER IN A WORD OR A SENTENCE:			
	1. Name one animal which can hear ultrasonic sounds.			
	2. Name the sound producing organ in humans.			

- 3. Name that part of ear which vibrates when outside sound falls on it.
- 4. Name the unit used to measure the loudness of sound.
- 5. On what factor does the pitch of a sound depend?

- 6. What is the name of passage in outer ear which carries sound waves to the eardrum?
- 7. What is frequency of oscillation?
- 8. What is the audible range of frequencies for human ears?
- 9. What is the relation between 'time-period' and 'frequency' of an oscillating body?
- 10. Why can ultrasound not be heard by humans?

ANSWERS: 1. Dog

- 2. voice box /Larynx
- 3. eardrum
- 4. Decibel
- 5. The frequency determines the shrillness or pitch of a sound.
- 6. Ear canal
- 7. The number of oscillations per second is called the frequency of oscillation.
- 8. For human ear, the range of audible frequencies is roughly from 20 to 20,000 Hz.
- 9. Time Period = 1/frequency
- 10. frequencies of ultrasound are higher than 20,000 Hz.

CHAPTER 14 CHEMICAL EFFECTS OF ELECTRIC CURRENT

I. <u>CHOOSE THE CORRECT ANSWER FROM THE GIVEN OPTIONS:</u>

4	Α.				
1.	An	electric	current	can	produce

- a) heating effect only. b) chemical effect only.
- c) magnetic effect only. d) chemical, heating, and magnetic effects.
- 2. Which one of the following solutions will not conduct electricity
 - a) lemon juice

b) vine

c) tap water

- d) vegetable oil
- 3. Which of the following metals is used in electroplating to make objects appear shining?
 - a) iron
- b) copper
- c) chromium
- d) aluminium
- 4. When electrodes are immersed in water and electricity passed, the bubbles formed on the negative terminal is actually

a) Hydrogen	b) Carbon di oxide	c) Oxygen	d) Nitrogen	
5. LED <u></u>	glows:			
(a) when a strong of	electric current flows throu	ıgh it		
(b) whenever a we	ak electric current flows th	nrough it		
(c) when no electri	c current flows through it			
(d) none of these				
6. Current is the flo	ow of:			
(a) electrons				
(b) protons				
(c) neutrons				
(d) none of these				
7. Distilled water is	5			
(a) Poor conductor				
(b) Good conductor				
(c) Poor conductor	and good conductor			
(d) None of these				
ANSWERS: 1d, 2d	, 3c , 4a , 5b , 6a , 7a			
II.	FILL UP THE BLANKS:			
1) The obje	ect to be electroplated is to	aken as	electrode.	
2) One of t	he most common applicat	ions of chemical effe	ct of electric current is	
	. 6			
of electricity.	ount of a mineral salt pres	sent naturally in wate	er makes it a	
4) Electropl give them a shiny a		is done on objects lik	ce water taps and cycle bell to	
ANSWERS : 1. Cath	node 2. Electroplating	3. Conductor 4.	Chromium	

ANSWER IN ONE WORD OR A SENTENCE:

III.

- 1. What are the substances that conduct electricity through them known as?
- 2. Name two metal objects which have a coating of another metal.
- 3. What do we get on electrolysis of acidified water?
- 4. Which metal is plated on handle bars of cycles and rim of wheels?
- 5. What is the full form of LED?
- 6. How do we check the electric current?
- 7. Why is a layer of zinc coated over iron?
- 8. Why we use chromium electroplating on taps and bars of bicycle instead of silver and gold?

ANSWERS:

- 1. Good conductors
- 2. Handlebars of bicycles, bathroom taps.
- 3. Hydrogen and oxygen gas.
- 4. Chromium
- 5. Light Emitting Diode.
- 6. by using a tester.
- 7. To prevent iron from corrosion and rust.
- 8. Silver and gold are very expensive comparatively to chromium.

CHAPTER 15 SOME NATURAL PHENOMENA

I. CHOOSE THE CORRECT ANSWERS:

- 1. Name the resin which produces spark is
 - a. Gum b. Amber c. Both a and b d. None of these
- 2. The like charges
- a. Repel each other b. Attract each other c. No interaction takes place d. All of these
- 3. The shaking of earth is called
 - a. Tsunami b. Volcano c. Earthquake d. All of these
- 4. Lightening occurs due to
 - a. Electric discharge b. Rain c. Wind d. God's anger
- 5. Interaction of charges is called
 - a. Lightening b. Electrical discharge c. Earthing d. Electricity
- 6. Benjamen Franklin showed lightening in

a. 17	725 b. 1527 c. 1752 d. 1572				
7. The cl	harge acquired by a glass rod when it is rubbed with silk is				
a. No	egative b. Positive c. Both d. None				
ANSWER	RS:				
1. B	3 2. A 3. C 4. A 5. A 6. C 7. B				
II FIII IN	N THE BLANKS:				
	. There are two kinds of chargesandcharge.				
	2. It is not possible to predict the occurrence of an				
3	can protect buildings from the effects of lightning.				
4. T	I. The earthquake measuringor more on Richter scale can cause severe damage to				
li	fe and property.				
5. A	nmay be used to detect whether a body is charged or not.				
6. T	he electric charges produced by rubbing are called ascharges.				
7. T	. The process of transferring of charge from a charged object to the earth is called				
_					
ANSWER	RS: 1. Positive , negative 2. Earthquake 3. Lightning conductor 4. 7				
5	Electroscope 6. Static 7. Earthing				
J	.Electroscope of Static 7. Earthing				
III. <u>ANSW</u>	VER IN A WORD OR IN A SENTENCE:				
1 н	low will you charge a glass rod by the method of friction?				
	What is a flash of light which occurs in the sky during the rainy season called? What kind of electric charge is acquired by a plastic comb rubbed with dry bair?				
	What kind of electric charge is acquired by a plastic comb rubbed with dry hair? What is the instrument used to measure and record an earthquake?				
	What is the instrument used to measure and record an earthquake? What are seismic waves?				
	lame the scientist who showed that lightning and the spark from your clothes are				
е	ssentially the same phenomena.				
А	NSWERS:				
1. A	glass rod can be charged by rubbing it with silk cloth.				

- 2. Lightning
- 3. Negative charge
- 4. Seismograph
- 5. The tremors produce waves on the surface of the earth. These are called seismic waves.
- 6. In 1752 Benjamin Franklin

IV. <u>DEFINE:</u>

- 1. Electroscope: A device which is used to test whether an object carry a charge or not.
- 2. Earthing : The process of transferring of charge from a charged object to the earth.