2nd Term Worksheet [2018 – 19]

Subject - Physics Class - VII

Check Point: [A] Answer the following questions: [73] 1. What is reflection of light? Ans. 2. State the laws of reflection. Ans. 3. What is regular reflection? Ans. 4. What is diffused reflection? Ans. 5. Name four features of image formed by a plane mirror. Ans.	Nam	e :		Sec. :
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		Ans.		
Ans			Name four features of image formed by a plane mirror.	
		Ans.		

6.	Draw a ray diagram of showing the formation of image in a plane mirror.
7.	Draw a ray diagram showing laws of reflection.
8. Ans.	What do you mean by lateral inversion?
9. Ans.	Write three uses of a plane mirror.
7 1113.	
10.	Write all the letters from A to Z and find out those letters whose images in the mirror appear to be the same as the original letters.
Ans.	

[76]

[B]

Answer the following questions:

	1.	How	do we see colours?			
	2.	List	the primary colours of light.			
	3.	Defir	ne colour addition.			
	4					
	4.	vvna	t is colour subtraction?			
	5.	Writ	e one equation for colour subtract	ion.		
	Ans.					
Keyw	ords:					[76]
Angle	of incid	lence				
Angle	of refle	ction				
Exerc						[77-79]
[A]			oice Questions:			[77]
	(i)		t is a form of	/I- \		
		(a) (c)	matter medium	(b) (d)	energy none of these	
	(ii)		t travels in a	(u)	HOLIE OF CHESE	
	(11)	(a)	straight line	(b)	curved line	
		(c)	neither straight nor curved	(d)	none of these	
		*/		(-)		

(iii)

	into	the same medium, is called			
	(a)	reflection	(b)	refraction	
	(c)	scattering	(d)	none of these	
(iv)	Whic	ch one of the following is the	best reflector o	f light?	
	(a)	plastic plate	(b)	plane mirror	
	(c)	wall	(d)	paper	
(v)	The	image formed in a plane miri	ror is		
	(a)	real	(b)	virtual	
	(c)	large	(d)	none of these	
(vi)	In a	plane mirror the distance of	an image is the		
	(a)	same as that of the object	(b)	grater as that of the object	
	(c)	less as that of the object	(d)	none of these	
(vii)	If an	gle of incidence is 60°, then t	he angle of ref	lection will be	
	(a)	30°	(b)	60°	
	(c)	120°	(d)	90°	
(viii)	Angl	e of incidence is	equal to the	angle of reflection.	
	(a)	always	(b)	sometimes	
	(c)	under special conditions	(d)	never	
(ix)	A ka	leidoscope is a device used as	8		
	(a)	toy for children	(b)	to measure intensity of light	
	(c)	to verify laws of reflection	(d)	to disperse light rays	
Give		s of the following:	, ,		[77]
1.	In a	periscope the planes are incl	ined at 45°		
2.	Diffu	used reflection takes place on	rough surface	S.	
3.	Imaç	ges formed by plane mirrors a	are always erec	:t.	
4.	The	image formed by a plane mir	ror cannot be c	btained on a screen.	

Filli	n the blanks:						
1.	A plane mirror the	light rays	S.				
2.	Shadows are formed when light is		·				
3.	A image is formed	by the act	ual meeting of two or mo	ire			
	reflected rays.						
4.	A image is always	erect.					
5.	A image cannot be	obtained	on screen.				
6.	helps us to see an	object.					
7.	The angle formed between the incident ray a	and the no	ormal is called				
8.	A plane mirror all	the light t	that falls on it.				
Mato	ch the items in column I with the correct choice	es in colum	nn II:				
	Column I		Column II				
1.	Light is a form of	a.	Inverted				
2.	The image formed in a plane mirror is	b.	Real				
3.	The virtual image is always	C.	Energy				
4.	The image formed in a periscope	d.	Virtual and erect				
5.	The image formed by a plane mirror is	e.	On screen				
6.	The virtual image cannot be obtained	f.	Virtual				
State	e is the following statements are true or false:						
1.	te is the following statements are true or false: The angle of incidence is always equal to angle of reflection						
2.	Real image is formed in a plane mirror.	_					
3.	The image of the right hand in a plane mirro						
4.	A virtual image may be inverted or erect						
5.	The image formed by a plane mirror is a real image						
6.							
7.	In irregular reflections, we can see objects clearly The image formed by a plane mirror is diminished						
8.	A ray of light obtained as a result of reflection			ent r			
9.	In reflection, the angle of incidence is alway	s greater t	than the angle of reflection	n.			
10.	The image formed by a plane mirror is of the	e same siz	re as the object				
	erentiate between the following:	001110 312	<u></u>				
1.	Real image and virtual image						
1.	Real illiage and vii tual illiage						

Transparent and opaque bodies
Regular and Irregular reflection
Simple reflection and multiple reflection
Colour addition and colour subtraction

Answ	ver the questions: [79]
1.	What is light?
Ans-	
2.	Name some sources of light that are not hot.
Ans-	
3.	What are laws of reflection of light?
Ans-	
4.	The angle of between incident ray and reflected ray is 70°. What will the incident angle
	be?
Ans-	
A115-	
5.	State the characteristics of the image formed by a plane mirror.
Ans-	
6.	State the important uses of the plane mirror.
Ans-	

	What is a periscope?	
S-		
	How do we see colour?	
-		
	How does a rainbow form?	
_	Flow does a fambow form:	
-		
N	a diagram showing:	
	Regular reflection:	

2. Diffused reflection

[H]

3.

The terms related to reflection

	4.	An image formed by a plane mirror
Check	Point:	<u>Chapter – 5</u> [<u>Heat]</u>
[A]	Answe	er the following questions: [85
	1. Ans.	Define heat.
	2. Ans.	What do you mean by temperature?
	3. Ans.	State the differences between heat and temperature.

	On Ceisius scale of temperature, what is the value of:	
)	Lower fixed point:	
)	Upper fixed point: On Kalvin apple of temperature what is the value of	
	On Kelvin scale of temperature, what is the value of:	
	Lower fixed point:	
	Upper fixed point:	
	What is the value of melting point of ice?	
	On Celsius scale:	
	On Kelvin scale:	
	What is the SI unit of temperature?	
	What are the advantages for using mercury in thermometers?	
		·
	Convert 300 K in Celsius scale.	
	Convert 0°C in Kelvin scale.	
_	er the following questions:	[89]
_	What do you mean by change of state of matter?	[07]
	What do you mean by change of state of matter:	

[B]

	Define melting point of a substance.
-	
-	
1	Complete the following sentences. When a liquid change into a solid heat is
	What is evaporation? Explain by an example.
-	
-	
	Define condensation.
-	
-	
-	
-	
	Journator avala in natura is maintained?
	How water cycle in nature is maintained?
ĺ	Define vapourization by giving an example.

8. Ans.	Define sublimation.	
Answ 1. Ans.	er the following questions: What are the effects of heat on solids?	[89]
2. Ans.	Compare the expansion of solid, liquid and gas.	
3. Ans.	Why do overhead telephone wires sag more in summer?	
4. Ans.	Explain, why gaps must be left between the rails when laying railway track.	
5. Ans.	Explain, why loops are provided in long metal pipelines?	
-		

the following questions: Give an example of transfer of heat in our daily life. What do you mean by conduction? Give two examples of conduction.
Sive an example of transfer of heat in our daily life. What do you mean by conduction?
Sive an example of transfer of heat in our daily life. What do you mean by conduction?
Vhat do you mean by conduction?
Give two examples of conduction.
fill in the blanks: The heat transfers from one place to another in water due to
Name the process of transfer of heat from sun to earth.
Give some examples of conductors.
What is radiant aparay?
Vhat is radiant energy?

Draw a well-labelled diagram of a thermos flask.

8.

9. Ans.	Give some examples of insulation.
10.	Why birds fluff up their feathers?
Ans.	
V annanda	
Keywords: Thermometer	[48] :
Conduction:	
Convection:	
Radiation:	
Insulator:	

Exercise:

[A]

[100-102]

[A]	Multi	ple Ch	noice Questions:		[100-101]		
	(i)	Heat	is a form of				
		(a)	matter	(b)	energy		
		(c)	fluid	(d)	none of these		
	(ii)	The	SI unit of heat is				
		(a)	calorie	(b)	joule		
		(c)	celsius	(d)	kelvin		
	(iii)	ure is					
		(a)	thermometer	(b)	barometer		
		(c)	manometer	(d)	none of these		
	(iv)	The	liquid used in a laboratory the	ermometer is			
		(a)	mercury	(b)	water		
		(c)	alcohol	(d)	none of these		
	(v)	The	most important naturally occu	arring source	of heat is		
		(a)	earth	(b)	sun		
		(c)	moon	(d)	stars		
	(vi)	Heat	always flows from				
		(a) higher temperature to lower temperature					
		(b)	lower temperature to highe	r temperatur	e		
		(c)	equal temperature				
		(d)	none of these				
	(vii)	To convert celsius temperature into Kelvin temperature, the formula is					
		(a)	$K = {^{\circ}C} + 273$	(b)	$^{\circ}C = K + 273$		
		(c)	$^{\circ}C + K = 273$	(d)	none of these		
	(viii)	We cannot use mercury thermometer at the places like					
		(a)	London	(b)	New York		
		(c)	North Pole	(d)	None of these		
	(ix)	The	freezing point of mercury is				
		(a)	42°C	(b)	-39°C		
		(c)	- 12°C	(d)	-30°C		
	(x)	A th	ermos flask prevents				
		(a)	conduction	(b)	radiation		
		(c)	convection	(d)	conduction, convection and radiation		
[B]	Fill ir	n the b	lanks:		[101]		
	1.	Alun	ninium expands	th	an iron.		
	2.	Solic	ls expand	than liqu	uids.		
	3.		is°C and the				
			er fixed point is	°C.			
	4.	1°C	=°F.				
	5.	Ther	mostats are used for controlli	ng	·		
	6.		normal temperature of humar	3			
	7.	Tem	perature is the	of h	notness or coldness.		
	8.	The	is use	ed in a clinica	I thermometer.		

16 phy (vii) 9. When an object is heated it ____ _____ and when it cools it Liquids expands more than _____ but less than 10. 11. The vacuum between the walls in a thermos flask minimizes heat loss by [C] Write 'True' or 'False' against the following statements: [101] 1°F is more than 1°C. 2. Thermometers are made by using the principle of expansion in matters. ___ Gases expand more than liquids. _____ 3. 4. Liquids expand less than solids. _____ Electric wires are kept loose because it is difficult to stretch them. [101] [D] Answer the following questions: What is heat? Ans. 2. Is heat a form of energy? Give two examples where other forms of energy get converted into heat energy. Ans. 3. What do you mean by temperature? Ans. 4. What are the scales used for the measurement of temperature? Ans. 5. What is the relationship between heat and temperature? Ans.

-	In the following figure, bodies A and B are shown. Tell the direction of flow of heat A B 100gm 100C 10°C
	State three effects of heat on matter.
	What is meant by the heat capacity of a substance? In what units is it expressed?
	If you have to choose a material to build solar heater, which material would you ch
	If you have to build a water cooler, which material would you choose? (You can see table of specific heat).

Writ	e two important applications of expansion of solids in engineering.
Expl	ain, why:
Betw	veen railway tracks a small gap is left.
In la	rge bridges one end is kept fixed and the other rests on roller.
	ass stopper, when it gets stuck to the neck of the bottle, is heated first on order to it. Can you give the reasons?
	ece of paper is burnt inside a glass tumbler and the tumbler is then inverted quickly a trough of water. Explain, why the level of water in the tumbler rises?

Mato	ch the items of column A with the i	tems of column	n B:	[102]
	Column A		Column B	
1.	Good conductor of hat	a.	aeroplane	
2.	Bad conductor	b.	copper	
3.	Convection current	C.	solar system	
4.	Double walled system	d.	air	
5.	Radiant heat	e.	earth	
		f.	wind current	
Find	the odd one: give reasons for your	choice:		[102]
1.	gold, copper, cork, mercury			
3.	handles of kettles, cricket bat, e	lectric press, ov	vens	
4.	wood, paper, silver, plastic			
5.	conduction, convection, expansion	on, radiation		
Chir	reacone for the following:			
ناve	reasons for the following:			
1.	A steam burn is more severe that	an a hot water	burn.	

	2.	We feel cold when wear wet clothes.
	3.	Tea is cooled more rapidly by blowing on it.
	4.	After swimming, we feel colder on a windy day.
	5.	Mercury is used in a thermometer.
[H]	Solve	the following numerical: [103]
	1.	If the specific latent heat of ice is 340, 000 J/kg and the specific latent heat of steam is 2,300,000 J/kg. calculate.
	a.	the energy needed to melt 2 kg of ice at 0°C.
	b.	the energy needed to melt 500g of ice at 0°C.
	C.	the energy needed to change 3 kg of water at 100°C into steam.

Convert 32	°F into celsius scale.				
	conorde cours.				
Convert	10°C into °F.				
Jonvent –	OCIIIO F.				
Convert 37	°C into Kelvin.				
Convert 37	3 K into celsius.				
What will	oe the temperature o	f ice in Kelvin	temperature	?	
	·		·		

Check Point: [A] Answer the following questions: [110] 1. Give any four sources of sound around us. Ans. 2. Identify the part which vibrates to produce sound in the following instruments: (i) Tabla or Dholak (ii) Flute (iii) Tuning Fork (iv) Sitar (v) Violin 3. What is meant by amplitude of vibration? Ans. 4. What do you mean by time period of an oscillation? State its unit. Ans. 5. What is meant by frequency of vibration? State its unit. Ans. 6. What are the main characteristics of sound? Ans.		7.	22 phy (vii) What is the human body temperature in Celsius scale?
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		Ans.	
Ans			What are the main characteristics of sound?
		Ans.	
			,

Ans.	What is meant by loudness of sound? On what factor does it depend?	
8. Ans.	What is meant by pitch? On what factor does it depend?	
9. Ans.	What do you mean by quality or tone of sound?	
Answ	rer the following questions:	 [117]
1.	Where would sound travel faster – in air or in water?	[]
Ans.		
2.	Why is the flash of lightening seen much before we hear the thunder?	
	Why is the flash of lightening seen much before we hear the thunder?	
2.		
2.		
2.		
2.		
2.		
2. Ans.		
2. Ans.	What is an echo?	
2. Ans.	What is an echo?	
2. Ans.	What is an echo?	
2. Ans.	What is an echo?	

Name two bad reflectors of sound
How do bats use sound to locate their prey?
Why do we hear more clearly in a furnished room than in an empty room?
State the important differences between noise and a musical sound.
Name three major types of musical instruments.
State two uses of ultrasound.
An echo is heard from a distant cliff after an interval of 1.2 second. If the speed of sound in air is 340 m/s. Calculate the distance of the cliff.
——————————————————————————————————————

	11.	Write	e the full form	of the word 'SC	NAR'.					
	12.	A man stands at a distance of 168 metres from a high wall. He produces a sound an								
		hears the echo after 1 second. Calculate the speed of sound in air.								
Keyw	ords:							[118]		
Vibra	tions:									
	ation:									
Ampl	itude:									
-	iency:									
Decib										
Inaud	dible Sou	ınd:								
	ole Soun									
Noise								[140,400]		
Exerc		Ja Ola	alaa Owaatiana					[119-122]		
[A]			oice Questions					[119-120]		
	(i)		d is produced v	when objects	(b)	accelera	oto.			
		(a)			(b)	fraction				
	(ii)	(c)	displaced sound travels fa	actact in	(d)	II actioi	liseu			
	(ii)		sound traveis is solids	aงเซงเ III	(h)	liquida				
		(a)			(b)	liquids	thoso			
	(;;;)	(c)	gases	l through	(d)	none of	นายรย			
	(iii)		d cannot trave	ı tili ougii	/ h\	liauida				
		(a)	solids		(b)	liquids	those			
		(c)	gases		(d)	none of	ti iese			

(iv)

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		4.	A tau	ut membrane produces sound o	of	frequency t	han a loose one				
		5.	Soun	d travels	in steel t	han in air.					

	6.	Sound travels in steel than in v	water.	
	7.	Sound is produced when objects	_·	
	8.	The number of oscillations per second is called	·	
	9.	Frequency is measured in		
	10.	Sound cannot travel in		
[C]	Match	n the items in column I with the correct choices in column	n II:	[121]
		Column I	Column II	
	1.	Sound is produced when objects	Reflected	
	2.	Sound can be	Vibrates	
	3.	Echo is a type of	Hertz	
	4.	Human ear can hear the sound waves of frequency	Time Period	
	5.	Some animal can hear sounds of frequency	between 20-20,000	O hertz
	6.	The frequency is the inverse of	higher than 20,00	0 hertz
	7.	The unit of frequency is	Reflected sound	
[E]	Define	e these terms:		[121]
,	1.	Loudness:		
	2.	Sound quality:		
	۷.			
	3.	Shrill sound:		
	Э.	Siliti sodita.		
	4.	Echo:		
	4.			
	F	Litterancia		
	5.	Ultrasonic:		
	,	Lu fue a sur la		
	6.	Infrasonic:		
	7	Vilaga Maria		
	7.	Vibrations:		

Which	object is vibrating when the following sounds are produced:
(i)	The sound of a sitar or veena : :
(ii)	The sound of a tabla :
(iii)	The sound of a school bell :
(iv)	The buzzing of a bee or a mosquito :
(v)	The radio :
3.	Why do we not hear the screams of a bat?
Ans-	
4.	If you want to hear a train approaching from far away, why is it more scientific to pu
	the ears to the track?
Ans-	
_	
5.	The whale fish says something to its triend 175 km away. How long will it be before t
Λno	
	friend can hear this? (speed of sound in water = 1531 m/s)
Ans-	
AHS-	
AHS-	
AHS-	
AIIS-	One whale fish says something to its friend 175 km away. How long will it be before friend can hear this? (speed of sound in water = 1531 m/s)
AIIS-	
	friend can hear this? (speed of sound in water = 1531 m/s)
6.	
	friend can hear this? (speed of sound in water = 1531 m/s)

	d striking on		terials will give a	yoou cull a	aria vviliali VV	vouiu stiit	OI I
(i) (v)	Wood Asbestos	(ii)	Thermocol	(iii)	Brass	(iv)	Pa _l
Wher	re would soun	d travel	faster – in steel o	r in water?)		
List s	some oscillatio	ons whic	ch you see around	you. Do all	of these pr	oduce sou	nd?
——— Arraı (i)	nge the follow Child's voic		nds in the ascendi (ii) Man's vo			s: male's voi	ce
		· · · · · · · · · · · · · · · · · · ·					
Why	do we hear m	ore clea	rly in a curtained	room than	in a room v	vithout cu	rtair
Why	do we hear m	ore clea	rly in a curtained	room than	in a room v	vithout cu	rtair
Why	do we hear m	ore clea	rly in a curtained	room than	in a room v	vithout cu	rtaiı

	What are ultrasonic waves? Give their uses.	
•	Describe an experiment to show that sound cannot travel in vacuum.	
	Suppose you are on a pleasure trip to the Moon. A hammer drops out of your metal plate. Will you hear the bang?	nand on a
	he following numerical problems:	[122]
	A ship sends out a sound signal straight down and receives its echo after one	
	What is the depth of the sea at this spot? (speed of sound in water = 1430 m/s)

[F]

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-	
_	
	Pendulum A makes 15 oscillations in 5 seconds and pendulum B makes 8 oscillations in 4 seconds. Which has higher frequency? Express the frequency of each pendulum in
	nertz.
-	
_	
_	
	The frequency of a vibration is the inverse of its time period. What is the time period opendulum which is vibrating as 10 hertz?
_	
	The speed of sound in water is 1500 m/s. How far away from an under-sea rock should deep sea diver be, so that he can hear his own echo? The diver hears echo in 3 sec.

	The deepest part of the oceans in our world is the Marina Tench in the Pacific Ocean
•	which is 11,033 metres deep. If you were on a ship above this tench and send a sound
	signal straight down to the water, how long will it take for the echo to reach you? (Speed
	of sound in water 1500 m/s).
ns-	
	←