SET -17 CLASS -VII SUBJECT – SCIENCE TOPIC- MOTION AND TIME (CH.-13) , ELECTRIC CURRENT AND ITS EFFECTS ( CH.-14)

Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Ima	•	Any)	Correct Answer (Option- A,B,C,D)
1.	4_24 Science 10291	Motion and Time (Chapter -13)	There are four basic types of motion in mechanical systems: ROTARY MOTION is turning round in a circle; LINEAR MOTION is moving in a straight line; RECIPROCATING MOTION is moving backwards and forwards in a straight line; Socillating Motion is swinging from side to side Many mechanical devices convert motion from one type to another. What is the input and output motion for the equipment given alongside? (See the arrows showing the direction and type of the		input motion	out motion	D
			input motion.)		Input motion type	Output motion type	
				A.	Reciprocating	Linear	
				B.	Rotary	Linear	
				C.	Oscillating	Reciprocating	
				D.	Rotary	Oscillating	

Answer Options					
Option A	Option B	Option C	Option D		
А	В	С	D		

2.	4_24	Motion and	Assume	that a cycle and a car	reach			С
	Science	Time	speed br	reaker P at the same time	. What			
	10306	(Chapter -13)	the two	say about the distance be vehicles at T, compared to reakers had NOT been the				
				Answer	Options	5		
		Option	A	Option B		Option C	Option	n D
		The vehicles v	will cross	The distance between	The di	stance between	The distance	between
		T at the SAM	IE TIME	the vehicles will be	the v	ehicles will be	the vehicles v	will be
		whether or n are speed br		MORE when there are speed breakers.		when there are eed breakers.	LESS, but the	•

3.	4_24	Motion and	See this f	figure of an hour glass (or		A
	Science	Time	sand clocl	k) which is used to measure		
	10296	(Chapter -13)		e of the important factors	7.5	11
		(Chapter 13)	that dete	ermines the ability of the	21	-32
			hour gl			
			accurately	rrately is the fineness of the sand		
			in it. Coar	it. Coarse sand will wear away the		
			glass, m	aking the measurement		
			inaccurate	e. In what way will the time	:	
			measured	l by an hour glass having		
			coarse sa	nd be inaccurate (assuming		
			no other	defect in the hour glass)?		
				Answer	Options	
		Option	ı A	Option B	Option C	Option D
		The time taken	for the	The time taken for the	The hour glass will not	(The hour glass will
		sand to drain co	mpletely	sand to drain	function at all due to	continue to be accurate
		will be less than what it		completely will be more	the effect of the coarse	and it will not be
		should be.		than what it should be.	sand.	affected by coarse
						sand.)

4.	4_24	Motion and	A roller	coaster trad	ck has to	be			Α
	Science	Time	designed	with P as the	starting po	int -			
	10294	(Chapter -13)	rest at p	ast is, the coaster has to start from est at point P, and travel along the ack up to a point Q. Which of these acks would make that possible?					
					Answe	r Opt	ions		
		Option	A	Optio	on B		Option C	Option D	
								All of them are po	ossible

5.	3_15	Electric Current	A torch uses three	D		
	Science	and its Effects	different forms of			
	3540	(Chapter -14)	energy. Which of these shows the energy			
	5.2.3		changes in the correct order?			
		Answer Options				

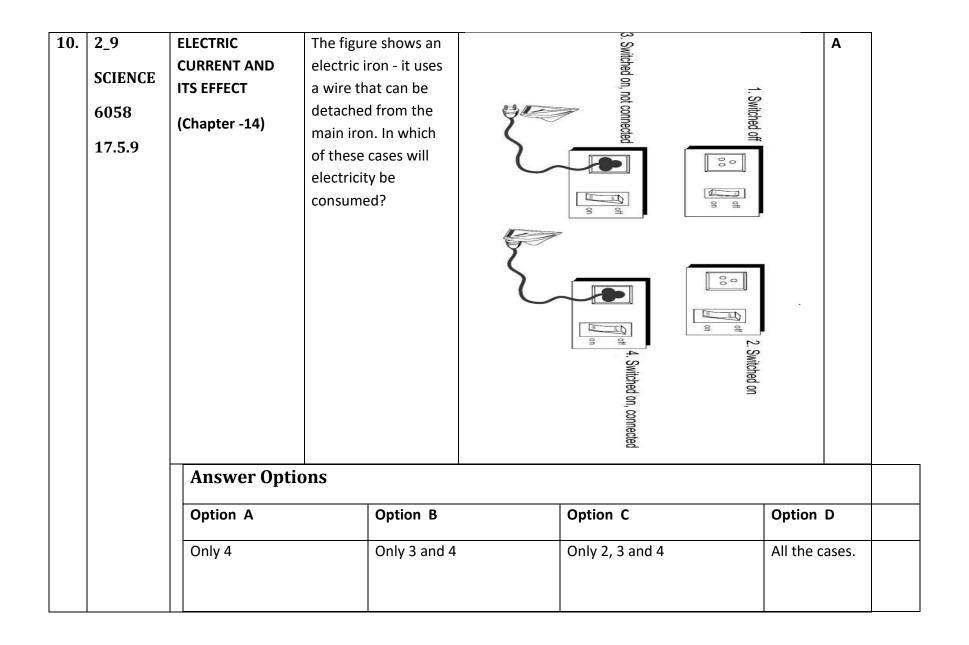
		Option .	A	Option B		Option C		Opt	ion D	
		Mechanical> Chem		Heat> Chemica	3	Electrical Mechanical- Chemical	>		cal> > Ligh	ıt
6.	3_15 Science 3546 5.2.3	Electric Current and its Effects (Chapter -14)	classifies as good of electr substance	e given below s a few substances or bad conductors icity. Which ce has been put ne wrong heading?		Good Conductors Graphite Wax Copper Iron	P A P	Conductors Plastic Air Paper Cloth	С	
		Option . Graphite		Option B Air	nswer	Options Option C		•	ion D	
7.	3_16 Science 2419	Electric current and Its Effect (Chapter -14)	in figure connecte	ircuit shown below P. If the battery is d the other way (as figure Q), what will		Figure P	Bulb	Figure Q	Switch	Α
				A	nswer	Options				

Option A	Option B	Option C	Option D
The bulb will glow in exactly the same way.	The bulb will glow but less brightly.	The bulb will blow or fuse out.	The bulb will not glow, but not get damaged.

8.	2_9	ELECTRIC	Study this electrical	Bulb	В
	C-:	CURRENT AND	circuit. It consists of a	<b>—</b>	Đ.
	Science	ITS EFFECT	powerful battery, a bulb,		
	5064	(Chantan 14)	an electromagnet and a		= .
		(Chapter -14)	movable connection. The		Ba
			connection is designed in	Electromagnet	
			such a way that it closes	Position of movable connection on	
			(that is, it allows electric	magnetisation	7
			current to pass) when the	Switch	-
			electromagnet is not		
			magnetised; but opens		
			when the electromagnet is		
			magnetised. If the		
			electromagnet takes 5		
			seconds to get		
			magnetised, what will be		
			status of the electric bulb?		

	Option A	Option B	Option C	Option D	
	It will remain OFF - it will not glow at all.	It will alternate between ON and OFF states.	It will come ON after some seconds and keep glowing.	It will stay ON for a few seconds and then go OFF.	

9.	2_10	ELECTRIC CURRENT	Rita wants to send a wr	itten message	С	:
	SCIENCE	AND ITS EFFECT	and a picture to her frie	end. Which of		
	SCIENCE	(Chantar 14)	the following should sh	the following should she use?		
	4150 17.5.9	(Chapter -14)				
		Answer Option	ns	·		
		Option A	Option B	Option C	Option D	
		A pager	A telephone	A fax machine	A television	

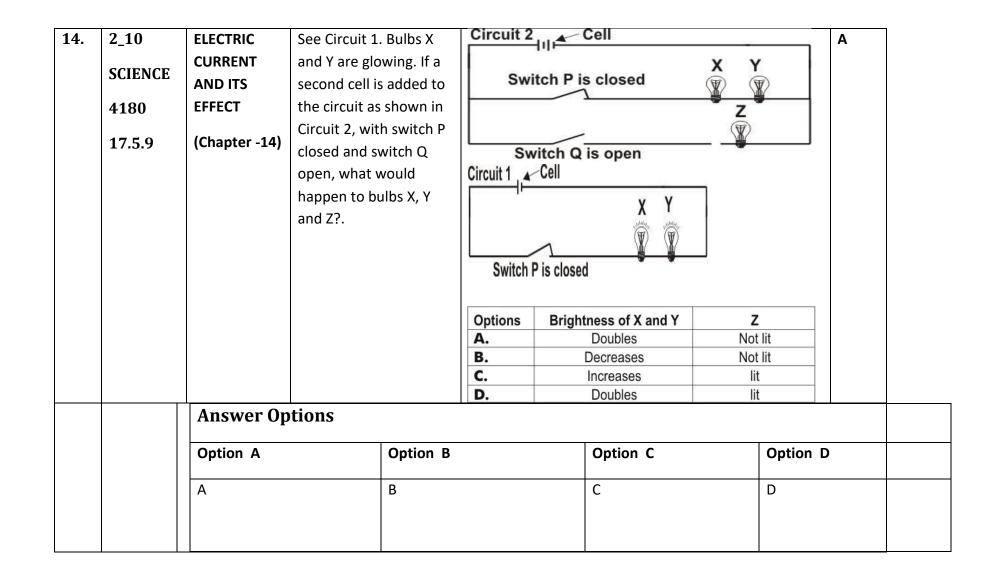


11.	2_9 SCIENCE 4981 17.5.9	AND ITS EFFECT (Chapter -14)	The diagram shows a flashlight battery and a bulb connected by wires to various substances. Which of the bulbs will light?	Bulb 1  Air  Bulb 3  Copper Coin	Bulb 2  Steel Nail  Bulb 4  Rubber block
		Option A  1 and 2 only	Answer Options Option B 2 and 3 only	Option C  3 and 4 only	Option D  1, 2 and 3 only

12.	2_10	ELECTRIC CURRENT	Many electrical devices like televisions and electric irons	С
	SCIENCE	AND ITS EFFECT	have plugs which have 3 pins. However, other devices	
	4169	(Chapter -14)	sometimes work with only 2 pins. Why is the third pin necessary?	
	17.5.9			

	Answer Options					
Option A	Option B	Option C	Option D			
It is not necessary; it is only to provide a better grip.	Since the sockets often have three holes, the third pin fits into the third hole.	It is provided for safety in case electricity leaks onto the body of the appliance.	It allows the electric device to draw more power than it could with only 2 pins.			

1	3.   2_	_9	ELECTRIC When a plastic spoon is rubbed on C								
					ollen cloth and held ab	ove a					
	60	60.40	EFFECT	mixture of salt and pepper, pepper							
	60	043	(Chapter -14)	jumps to the spoon. Choose the best reason for this:							
		-	Answer Options								
		Option A			Option B Option		С	Option D			
			Air pushes the pepper towards the spoon.		The spoon temporarily gets magnetised.	•	oon temporarily arged with static ity.	Gravitational attraction pulls the pepper to the spoon			



15.	3_17 Science 1523	Electric current and its Effects When connected as shown, the bulb glows, but dimly. Which of these CAN be the explanation for this:			C				
		Answer Options							
		Option A		Option B	Option C		Option D		
		The wires are not touching the battery or bulb.		The bulb is fused (that i its filament is broken.)		The battery is weak and not producing enough electricity.	The battery is connected the wrong way around.		