

SET -18

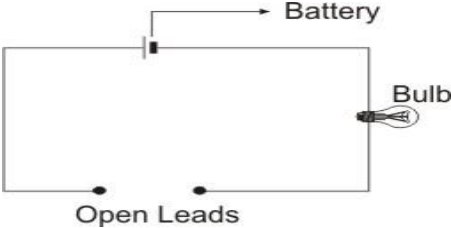
CLASS -VII

SUBJECT – SCIENCE

TOPIC- ELECTRIC CURRENT AND ITS EFFECTS (CH.-14) , LIGHT (CH.15)

Q. N.	Folder name & Question Code	Topic	Question with Answer Options	Image (If Any)	Correct Answer (Option-A,B,C,D)
1.	4_25 Science 11969	Electric current and its Effect	A small pocket radio can be operated either using 4 small cells (batteries) or using mains electric power. How is this possible?		D
Answer Options					
		Option A	Option B	Option C	Option D
		The voltage from both sources is the same.	The radio works within a large range of voltages.	The electric power charges the cells that operate the radio.	The mains electric power voltage is reduced to operate the radio.


2.	4_23 Science 9053	Electric current and its Effect	Will a battery that is used in a torch light up a regular 60W bulb used in homes?		D	
		Answer Options				
		Option A	Option B	Option C	Option D	
		Yes, it will and the bulb will glow quite brightly.	Yes, it will but the bulb will glow dimly.	No, it will not because a battery does not produce electricity.	No, it will not because the current will not be sufficient.	

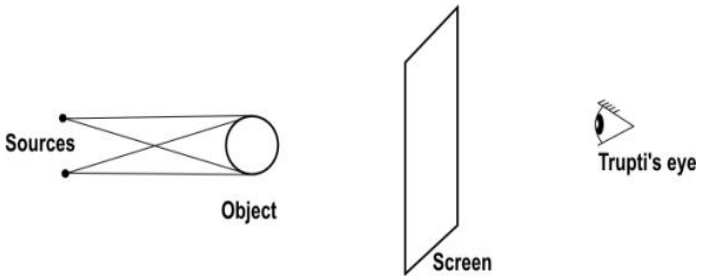
3.	4_23 Science 9065	Electric current and its Effect	The setup shown here is to be used by group of students to classify materials as conducting and non-conducting. The materials they want to classify are. What is the very FIRST thing that they should do before starting to test any materials?		D
		Answer Options			


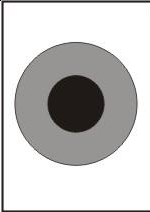
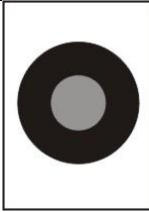
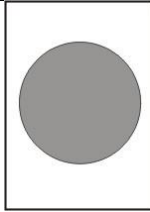
Pencil Lead
Wax
Glass
Paper
Plastic
Paper Clip
Copper wire
Aluminium Foil

Option A	Option B	Option C	Option D
Place the items one by one between the open leads given and if the bulb glows then list them as conductors.	Check with a person working in the laboratory whether the given materials are conductors.	Place a known insulator between the leads given and check if the bulb glows.	Without placing anything between the open leads, connect the circuit and check if the bulb lights up.

4.	3_16 Science 2424	Light	An open box has two mirrors arranged as shown, with a ray of light incident on one of the mirrors. How many times will the ray reflect before it leaves the box?		D		
Answer Options							
Option A		Option B		Option C		Option D	
2		3		5		The ray will never leave the box	

5.	3_16 Science 2443	Light	Which phenomenon of light is illustrated by the pair of boards shown here?		D		
Answer Options							
Option A		Option B		Option C		Option D	
Refraction		Lateral displacement		Dispersion		Lateral inversion	

6.	4_23 Science 9069	Light	Which of the following will be the shadows that Trupti will see on the translucent screen, if a sphere is held between two-point sources of light and the screen?		B
Answer Options					

		Option A	Option B	Option C	Option D
					

7.	1_3 SCIENCE 7341	LIGHT	Neha focused a magnifying glass on to a tissue paper and held it. After a while, the tissue paper caught fire. Identify the statement that provides the correct explanation for this observation.		B
Answer Options					
		Option A	Option B	Option C	Option D
		Neha lit the tissue paper.	The magnifying glass focuses the heat from the Sun's radiation.	The magnifying glass is a good conductor of heat and transmits the heat to the paper.	Air is a good conductor of heat and transmits the heat to the paper.

8.

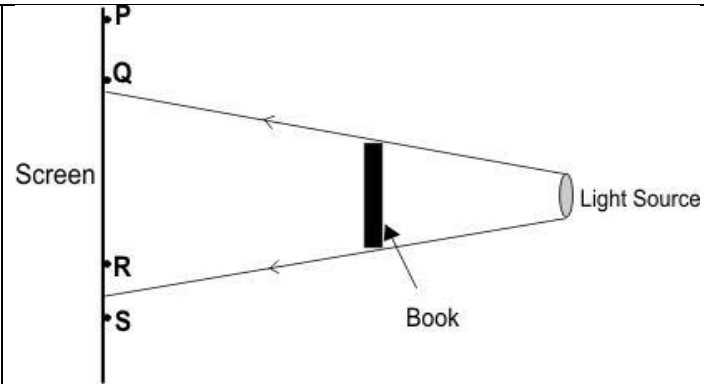
1_3

SCIENCE

7359

LIGHT

Here is a scale drawing of an arrangement of a LIGHT SOURCE, BOOK and SCREEN in a darkened room. Which of the options below shows the correct situation at points P, Q, R and S on the screen?

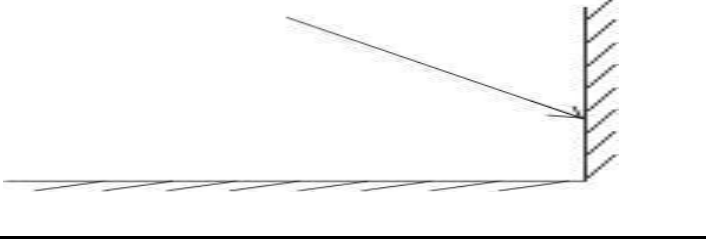
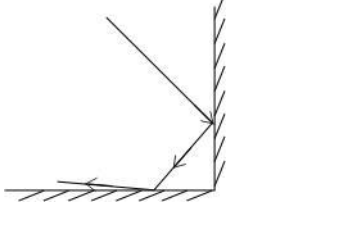
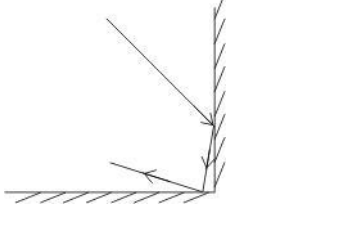
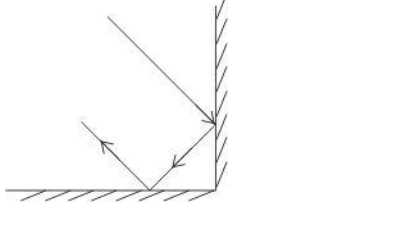
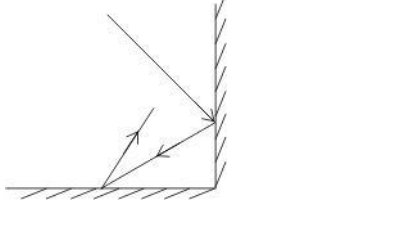



B

	Brightly Lit	Partly in Shadow	Completely Dark
A.	P	R and S	Q
B.	P	Q and S	R
C.	Q and S	P	R
D.	R	Q	P and R

Answer Options

Option A	Option B	Option C	Option D
A	B	C	D

9.	1_3 SCIENCE 6682	LIGHT	Which one of the diagrams below correctly shows the path of the reflected ray?		C		
Answer Options							
Option A		Option B		Option C		Option D	
							

10.	2_10 SCIENCE 4144	LIGHT	Veena observes the time in the clock shown in picture, through a MIRROR and thinks it is 9:40. What would be the actual time?		D
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		Answer Options				
		Option A	Option B	Option C	Option D	
		3:20:00 AM	9:40:00AM	3:40:00 AM	2:20:00 AM	

11.	2_10 SCIENCE 4178	LIGHT	Shown in picture is the flag of a country. Blue, Green and Red are primary colours and Yellow = Red + Green. If the above flag is seen through a red filter, it will look like	<table border="1" style="margin: auto;"> <tr><td style="text-align: center;">GREEN</td></tr> <tr><td style="text-align: center;">YELLOW</td></tr> <tr><td style="text-align: center;">BLUE</td></tr> </table>		GREEN	YELLOW	BLUE	D									
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Answer Options																		
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YELLOW																		
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12.	2_9 SCIENCE 6079	LIGHT	Which of these rays shown here will strike each mirror either directly or after reflection?		A
		Answer Options			
		Option A	Option B	Option C	Option D
		A	B	C	D

13.	2_10 SCIENCE 4152	LIGHT	If our eyes did not have tear glands, what would happen?		D
		Answer Options			
		Option A	Option B	Option C	Option D
		Nothing. These glands are not really necessary.	The only effect would be that we would not be able to cry.	We would become blind immediately since tears are needed to see.	Our eyes would get damaged since the tears provide lubrication.

14.	2_10 SCIENCE 4163	LIGHT	A crowd is watching a firework display. They see the firework explode and then hear the noise of the explosion a little later. Why does this happen?		A	
		Answer Options				
		Option A	Option B	Option C		Option D
		Light travels faster than sound.	Sound travels upwards and then moves towards the crowds.	The sound is produced after the light.	Sound is blocked by the layers of air it passes through.	

15.	4_25 Science 11731	Light	George is running towards the finish line in a race. The sun is casting his shadow as shown. In which direction is George running?		B	
		Answer Options				
		Option A	Option B	Option C		Option D
		definitely north-west	either north-east or south-west	definitely south-west	it is not possible to <u>tell</u> from the given information	