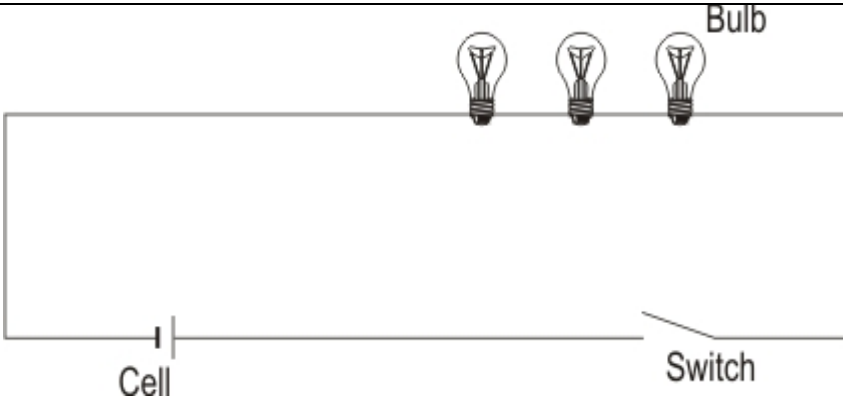


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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
1.	2_10 Science 4210	Chapter 14 Chemical effects of Electric current	The light bulbs shown in the diagram below are connected in a series circuit. The bulbs do not light up, apparently because one of the bulbs is fused. How can it be determined which bulb(s) is/are fused?		A
Answer Options					
Option A		Option B		Option C	
Put the switch on and substitute with a new bulb, one by one, until all three bulbs light up.		Put the switch on and notice which bulb does not light up.		Put the switch on and remove one bulb at a time until the other two light up.	
				Option D	
				There is no way to determine which bulb is burned out when they are connected in series.	
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)

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2.	2_10 Science 4217	Chapter 14 Chemical effects of Electric current	Some electric devices like air conditioners (AC) use plugs which are bigger in size than those used by radios, televisions (TV), etc. Why is this?		B											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td>Devices like AC's require higher voltage.</td> <td>Devices like AC's draw higher current.</td> <td>Devices like AC's require greater protection from electric shock.</td> <td>There is no reason for this - the difference is only in appearance.</td> </tr> </tbody> </table>					Answer Options				Option A	Option B	Option C	Option D	Devices like AC's require higher voltage.	Devices like AC's draw higher current.	Devices like AC's require greater protection from electric shock.
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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)											
3.	2_10 Science 4221	Chapter 14 Chemical effects of Electric current	If you reverse the direction of rotation of an air cooler's fan, what will happen?		C											
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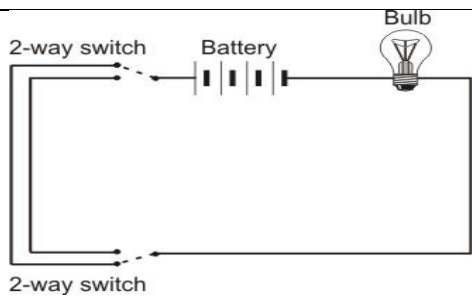
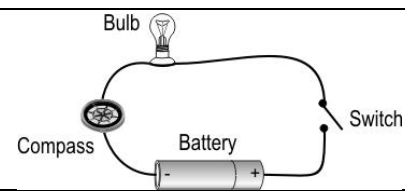
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		work like before.		exhaust and pull out air.	out.	
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)		Correct Answer (Option – A, B, C, D)
4.	3_16 Science 2471	Chapter 14 Chemical effects of Electric current	Which switch A, B, C or D MUST be open to ensure that no bulb will glow			A
Answer Options						
Option A		Option B		Option C		Option D
A		B		C		D
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)		Correct Answer (Option – A, B, C, D)

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5.	3_16 Science 2487	Chapter 14 Chemical effects of Electric current	<p>See the diagram of an electric bell given below. Now arrange the steps that describe its functioning in the correct order.</p> <ol style="list-style-type: none"> 1. The switch is closed and the current flows in the electromagnetic coil 2. The spring returns the iron shaft to its original position 3. The iron shaft is attracted to the electromagnetic coil and strikes the bell 4. The contacts close the circuit causing electricity to flow again 5. As the iron shaft moves towards the bell, contact is broken 		D												
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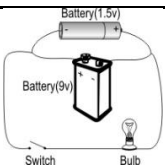
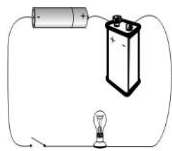
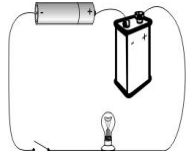
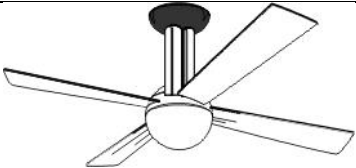
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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)												
6.	3_17 Science 1895	Chapter 14 Chemical effects of Electric current	Study this circuit which uses two 2-way switches. Unlike a regular switch, a 2-way switch is connected to a circuit even when it is in the 'off' position. The special feature of this circuit is that:		B												
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7.	4_23 Science 9087	Chapter 14 Chemical effects of Electric current	Study the simple circuit shown here. A compass is placed near the circuit as shown. Which		A												

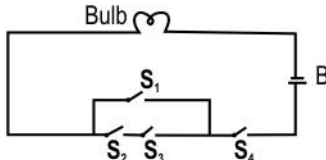
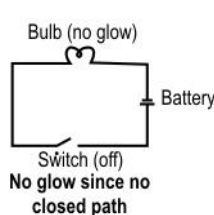
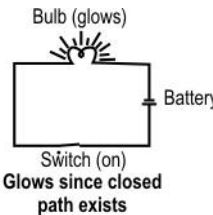
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			of these statements is TRUE?														
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8.	4_23 Science 9108	Chapter 14 Chemical effects of Electric current	Raju has two batteries. One is a 9V battery and the one is a regular 1.5V pencil cell. Each battery has a + and - noted on it as shown. How can Raju connect the two batteries together in a simple circuit?		C												
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Answer Options																	
Option A	Option B	Option C	Option D														

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					it is not possible to connect two dissimilar batteries like these													
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)		Correct Answer (Option – A, B, C, D)												
9.	2_9 Science 6094	Chapter 14 Chemical effects of Electric current	While repairing a fan, a trainee electrician connects the wires wrongly. When the fan is switched on, it rotates at the proper speed, but in the OPPOSITE direction. What will happen as a result of this?			C												
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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)												
10.	2_9 Science 6118	Chapter 14 Chemical effects of Electric current	<p>A switch controls whether electricity flows in a circuit or not. In the figure given below, S1, S2, S3 and S4 are switches. Under what case will the bulb glow?</p> 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	D												
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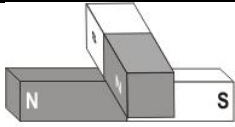
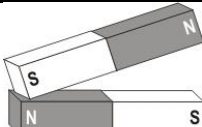
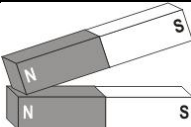
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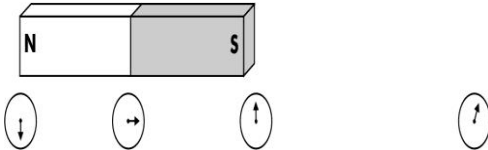
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)												
11.	2_9 Science 6114	Chapter 14 Chemical effects of Electric current	A train with a diesel engine is not connected to any external source of electricity while it is moving. What is the MAIN source of the electricity on which the fans and lights in the coaches run?		C												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">The train draws power from electrical wires overhead.</td> <td style="padding: 5px;">The train draws power through the tracks.</td> <td style="padding: 5px;">The train generates power from its motion using a generator.</td> <td style="padding: 5px;">The train carries a large battery that provides electricity during its journey.</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	The train draws power from electrical wires overhead.	The train draws power through the tracks.	The train generates power from its motion using a generator.	The train carries a large battery that provides electricity during its journey.
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12.	2_10	Chapter 14 Chemical effects of Electric current	Electromagnets are created by coiling a wire that conducts electricity around a piece of iron and then passing a		C												

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	Science 4205		<p>current through the wire. Below are the results of an investigation to determine the relationship between the number of coils and the strength of an electromagnet. What do the results of this experiment suggest?</p>	<table border="1" style="margin: auto;"> <thead> <tr> <th style="text-align: left;">Number of Coils</th> <th style="text-align: left;">Number of Metal Screws picked up by the magnet</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5 coils</td> <td style="text-align: center;">1.0</td> </tr> <tr> <td style="text-align: center;">10 coils</td> <td style="text-align: center;">3.0</td> </tr> <tr> <td style="text-align: center;">20 coils</td> <td style="text-align: center;">5.7</td> </tr> </tbody> </table>	Number of Coils	Number of Metal Screws picked up by the magnet	5 coils	1.0	10 coils	3.0	20 coils	5.7						
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13.	3_15 Science 3626	Chapter 14 Chemical effects of Electric current	Which of the following shows a magnet being attracted to another magnet?				B											
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	 <p style="text-align: center;">A.</p>	 <p style="text-align: center;">B.</p>	 <p style="text-align: center;">C.</p>	<p>Both A and B</p> <p style="text-align: center;">D.</p>
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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)																
14.	3_16 Science 2461	Chapter 14 Chemical effects of Electric current	A bar magnet is shown along with 4 compasses placed near it. If there are no magnetic substances near it, a compass needle will point north. Which of the arrows in the options below is pointing towards North?		A																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">→</td> <td style="text-align: center;">↑</td> <td style="text-align: center;">↓</td> <td style="text-align: center;">←</td> </tr> <tr> <td style="text-align: center;">A.</td> <td style="text-align: center;">B.</td> <td style="text-align: center;">C.</td> <td style="text-align: center;">D.</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	→	↑	↓	←	A.	B.	C.	D.
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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)												
15.	3_15 Science 3589	Chapter 14 Chemical effects of Electric current	In the solar panel shown here, one form of energy is converted into another. An example of a device in which the energy conversion is OPPOSITE to that of the solar panel is -		C												
<table border="1" style="width: 100%; border-collapse: collapse; margin: 10px auto;"> <thead> <tr> <th colspan="4" style="text-align: center;">Answer Options</th> </tr> <tr> <th style="width: 25%;">Option A</th> <th style="width: 25%;">Option B</th> <th style="width: 25%;">Option C</th> <th style="width: 25%;">Option D</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a candle</td> <td style="text-align: center;">a radio</td> <td style="text-align: center;">a tube light</td> <td style="text-align: center;">a steam engine</td> </tr> </tbody> </table>						Answer Options				Option A	Option B	Option C	Option D	a candle	a radio	a tube light	a steam engine
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