

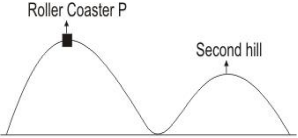
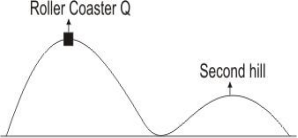
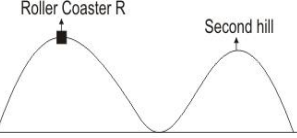
**SET -15**

**CLASS -VII**

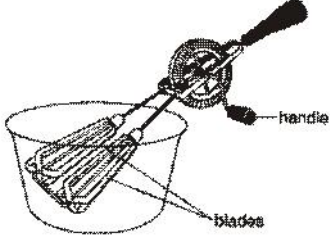
**SUBJECT – SCIENCE**

**TOPIC- MOTION AND TIME (CHAPTER -13)**

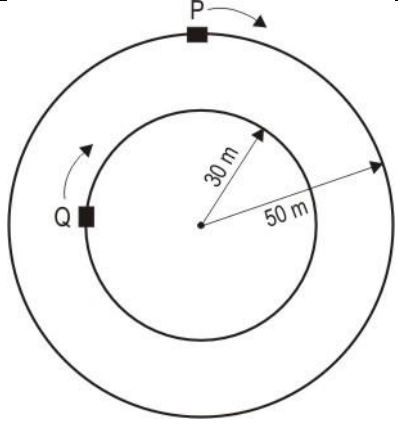
Q.N.	Folder name & Question Code	Topic	Question with Answer Options	Image  (If Any)	Correct Answer (Option-A,B,C,D)
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1	3_15 Science  3577	<b>Motion and Time</b>  (CHAPTER 13)	Which roller coaster will have the least speed at the top of the second hill?		<b>C</b>
		<b>Answer Options</b>			
		<b>Option A</b>	<b>Option B</b>	<b>Option C</b>	<b>Option D</b>
<p style="text-align: center;">Roller Coaster P</p>  <p style="text-align: center;"><b>A.</b></p>	<p style="text-align: center;">Roller Coaster Q</p>  <p style="text-align: center;"><b>B.</b></p>	<p style="text-align: center;">Roller Coaster R</p>  <p style="text-align: center;"><b>C.</b></p>	All will have the same speed.		

2.	3_15 Science  3578	Motion and Time  (CHAPTER 13)	<p>The unit used to measure distance is metres (m). The unit used to measure time is seconds (s). Speed = Distance / Time. Hence the unit used to measure speed is m/s.</p> <p>Now, momentum= mass x velocity.</p> <p>Velocity has the same unit as that of speed. What would be the unit of momentum?</p>		A			
			Answer Options					
			Option A			Option B	Option C	Option D
			kg m/ s			kg m/ s <sup>2</sup>	m/s <sup>2</sup>	s/kg m

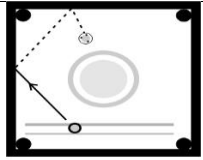
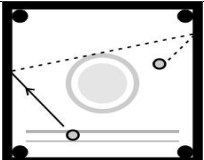
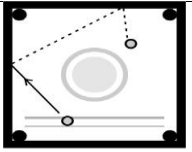
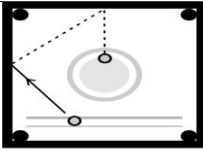
3.	3_15 Science  3561	Motion and Time  (CHAPTER 13)	<p>Which of the following is true for the egg beater / lassi maker shown in the picture?</p>		C
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Answer Options			
Option A	Option B	Option C	Option D
A lever is used to increase the force applied.	An inclined plane is used to reduce the force required.	A gear is used to change the direction of rotation.	A pulley is used to change the direction of force.

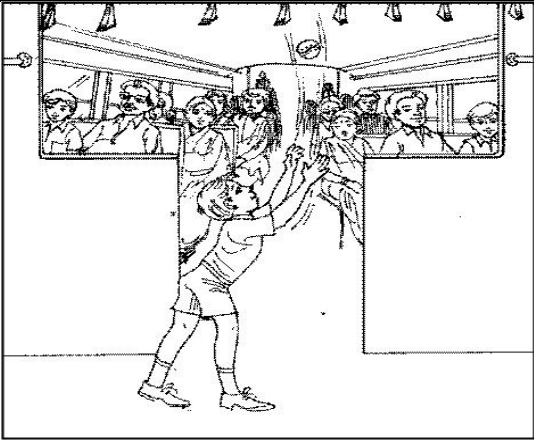
4.	3_17 Science  1539	Motion and Time (CHAPTER 13)	Two cars P and Q are moving at constant speeds on circular paths in such a way that when P completes one full circle, Q completes half a circle. The question is based on this.		C
			Through how many degrees at the centre of its circular path would P have moved when it is at the closest distance to Q for the FIRST time?		
			Answer Options		
Option A	Option B	Option C	Option D		
180°	360°	540°	720°		

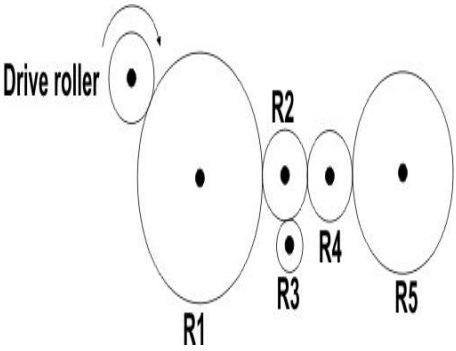
5.	1_3 Science 6675	MOTION & TIME (CHAPTER 13)	I am sitting in a train that is moving at a speed of 60 kilometres per hour (kmph). If a train now passes in the opposite direction at a speed of 80 kmph, what would its speed APPEAR to be to me?		D				
						<b>Answer Options</b>			
						Option A	Option B	Option C	Option D
						20 kmph in the direction of my train.	20 kmph in the direction opposite to my train.	140 kmph in the direction of my train.	140 kmph in the direction opposite to my train.

6.	2_9 Science 4985	MOTION & TIME (CHAPTER 13)	Identify the picture which shows the correct path of the striker on the carrom board		A
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Answer Options			
Option A	Option B	Option C	Option D
 A.	 B.	 C.	 D.

7.	1_3 Science 7351	MOTION & TIME (CHAPTER 13)	Ayesha is travelling in a train. As she is looking out of the window, another train on an adjacent track moving in the same direction overtakes her train.  Which of the following is TRUE?		B
<b>Answer Options</b>					
Option A		Option B		Option C	
To Ayesha, the other train will appear to be travelling <b>FASTER</b> than it actually is.		To Ayesha, the other train will appear to be travelling <b>SLOWER</b> than it actually is.		To Ayesha, the other train will appear to be travelling <b>AT THE SAME SPEED</b> as it actually is.	
				Option D	
				To Ayesha, the other train will appear to be travelling in the <b>opposite direction</b> .	

8.	4_23 Science 9047	Motion & Time (CHAPTER 13)	In a compartment of a moving train a boy throws up a ball. Where is the ball MOST likely to fall?		A		
Answer Options							
Option A		Option B		Option C		Option D	
into the boy's own hands		ahead of the boy		behind the boy		(it depends on the direction of motion of the train)	





9.	4_23 Science 9051	<b>Motion &amp; Time</b> (CHAPTER 13)	Many printing presses use rollers, which are long cylinders often made of rubber, to transfer inks. Rollers are usually friction driven by a drive roller. In the figure given, which roller(s) will turn in the same direction as the drive roller?		B
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		<b>Answer Options</b>			
		Option A	Option B	Option C	Option D
		Only R1	R2 and R5	R3 and R4	R4 and R5

10.	4_23 Science 9052	Motion & Time (CHAPTER 13)	If a cricket pitch were made vertical, it would approximately be as tall as a building with how many storeys?			B
		<b>Answer Options</b>				
		Option A	Option B	Option C	Option D	
		one	four	ten	thirty	

11.	4_23 Science 9070	Motion & Time (CHAPTER 13)	Bangalore is to the _____ of Chennai.	The cities Bangalore and Chennai are almost at the same latitude. Study the table given below and answer the question	D																								
				<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>City</th> <th>Bangalore</th> <th>Chennai</th> </tr> </thead> <tbody> <tr> <td>Latitude</td> <td>13.0°N</td> <td>13.0°N</td> </tr> <tr> <td>Longitude</td> <td>77.6°E</td> <td>80.3°E</td> </tr> <tr> <td>Height above sea level</td> <td>920 metres</td> <td>15 metres</td> </tr> <tr> <td>Distance from sea</td> <td>330 km</td> <td>0 km</td> </tr> <tr> <td>Average temperature</td> <td>23°C</td> <td>28°C</td> </tr> <tr> <td>Average annual rainfall</td> <td>90 cm</td> <td>126 cm</td> </tr> <tr> <td>Days in year with temperature over 35°C</td> <td>9</td> <td>95</td> </tr> <tr> <td>Days in year with temperature below 18°C</td> <td>91</td> <td>2</td> </tr> </tbody> </table>		City	Bangalore	Chennai	Latitude	13.0°N	13.0°N	Longitude	77.6°E	80.3°E	Height above sea level	920 metres	15 metres	Distance from sea	330 km	0 km	Average temperature	23°C	28°C	Average annual rainfall	90 cm	126 cm	Days in year with temperature over 35°C	9	95
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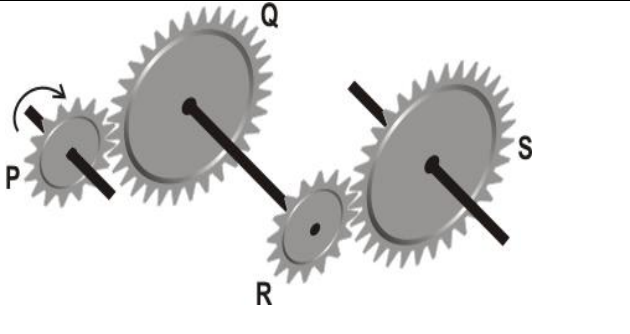
		Answer Options			
		Option A	Option B	Option C	Option D
		North	South	East	West

12.	1_3 Science 7327	MOTION & TIME (CHAPTER 13)	A person climbs a steep hill. Identify the posture of the person while climbing the hill.	<b>A</b>
Answer Options				
Option A		Option B		Option C
 <p style="text-align: center;"><b>A</b></p>		 <p style="text-align: center;"><b>B.</b></p>		 <p style="text-align: center;"><b>C.</b></p>
Option D				
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13.	1_3 Science 6677	MOTION & TIME (CHAPTER 13)	The unit of distance is metres (m). Speed is the rate of change of distance. Its unit is metres / second (m/s). Which one of these could be a unit of rate of change of speed?		C
<b>Answer Options</b>					
Option A		Option B		Option C	Option D
m.		m/s.		m/s <sup>2</sup>	Kmph

14.	2_10 Science 4173	MOTION & TIME (CHAPTER 13)	Sanjana is lying down on the top berth of a train compartment. The train is travelling at a constant speed. Sanjana now drops a ball from the top berth. Where will the ball fall, compared to where it would have fallen if the train were not moving?		A
<b>Answer Options</b>					
Option A		Option B		Option C	Option D
Exactly at the same position.		A little ahead of that position in the direction of the train's motion.		A little behind that position with respect to the direction of the train's motion.	It is not possible to specify - it may fall at A, B or C above.

15.	2_10 Science 4179	MOTION & TIME (CHAPTER 13)	In the arrangement shown the toothed wheel P is making 10 turns per minute in a clock wise direction. What can be said about wheel S? (The connecting rods can only rotate.)		B
<b>Answer Options</b>					
Option A		Option B		Option C	Option D
It will turn at the same speed in clockwise direction.		It will turn at a lower speed in clockwise direction.		It will turn at a faster speed in clockwise direction.	It will not turn at all in any direction.