



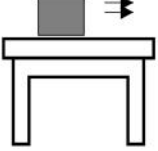
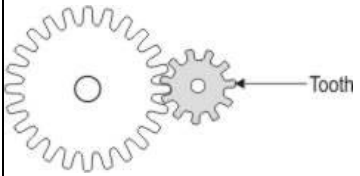



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S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)							
1.	1_3 Science 6708	Chapter 12 Friction	In the pictures below, the load is shown lifted directly and using a simple pulley. What is the role of the pulley in such a situation?		B							
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2.	1_3 Science 7376	Chapter 12 Friction	Air resistance is a special kind of frictional force that acts on objects as they travel through air. Identify the situation where this frictional force is ABSENT, from the ones given below.		A							

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		Answer Options			
		Option A	Option B	Option C	Option D
		 A. A lamp fixed with a rod from the ceiling	 B. A sky diver who has NOT opened his parachute	 C. A cricketer hitting the ball to the boundary	 D. A block sliding on the table
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
3.	4_24 Science 10339	Chapter 12 Friction	Gears are used to change speed in rotational movement. When two meshing gears are such that a tooth of the larger gear meshes with the same tooth of the smaller gear every time, it causes wear and tear damaging the gears. Which of these steps would avoid this problem?		C

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		Answer Options			
		Option A	Option B	Option C	Option D
		ensuring that both the gears have exactly the same number of teeth	ensuring that the number of teeth in the bigger gear is an exact multiple of that in the smaller gear	ensuring that the number of teeth in the bigger gear is not an exact multiple of that in the smaller gear	ensuring that the two gears are made of the same material
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
4.	4_23 Science 9105	Chapter 12 Friction	A gear is a toothed wheel used to transmit rotary motion. In the figure shown of farm equipment, for example, the smallest gear is turned by the engine, and it in turn makes the middle gear rotate, which makes the largest gear rotate. The largest gear (not fully visible) has 32 teeth. If the smallest gear completes one turn every minute, how much time will the largest wheel take to complete one full turn?		D

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		Answer Options			
		Option A	Option B	Option C	Option D
		about 30 seconds	1 minute	about 1.5 minutes	about 2.5 minutes
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5.	3_15 Science 3618	Chapter 13 Sound	What is the unit used to specify the frequency of a specific radio channel?		B
		Answer Options			
		Option A	Option B	Option C	Option D
		FM	Kilohertz	decibels	Band
S.N	Folder Number & Question Code	Topic	Question With Answers Options	Image (If Any)	Correct Answer (Option – A, B, C, D)
6.	3_16 Science 2463	Chapter 13 Sound	An electric guitar is generating a sound of constant frequency. An increase in which sound wave characteristic would result in an increase in loudness?		D

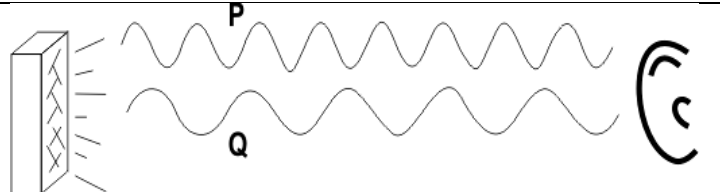
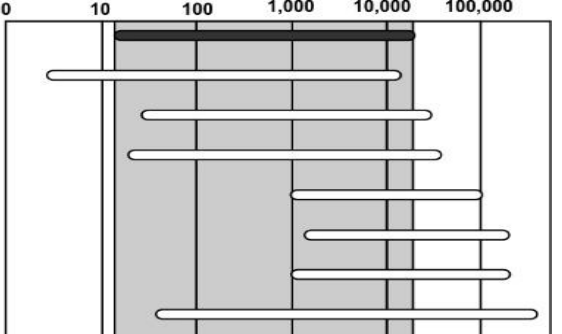
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7.	3_16 Science 2472	Chapter 13 Sound	When Sanya called her mother from her friend Seema’s place, she heard short beeps about 30 seconds after she had started her conversation. These beeps most probably indicate that:_____.		C												
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8.	3_17 Science 1892	Chapter 13 Sound	The frequency range in which some common animals can hear is shown in the graphic below. A manufacturer wants to create a pest controller that will emit loud sounds that can be heard by insects and rodents (and will hence drive them away), but will not affect humans and pets. What frequencies of sound should the pest controller produce?	<p style="font-size: small; text-align: right;">(The frequency axis uses the logarithmic scale)</p>	C												
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9.	4_23 Science 9093	Chapter 13 Sound	In the figure given, compared to wave P, wave Q would be _____		D																
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10.	4_23 Science 9106	Chapter 13 Sound	Study the graphic depicting the range of frequencies different animals can hear. <u>Note that the horizontal scale is not a linear scale.</u> Which of these correctly depicts the animals having the highest audible range of frequencies?	<table style="font-size: small;"> <tr> <td>HUMAN</td> <td>20-20,000Hz</td> </tr> <tr> <td>ELEPHANT</td> <td>5-12,000Hz</td> </tr> <tr> <td>DOG</td> <td>50-45,000Hz</td> </tr> <tr> <td>CAT</td> <td>45-65,000Hz</td> </tr> <tr> <td>MOUSE</td> <td>1,000-100,000Hz</td> </tr> <tr> <td>BAT</td> <td>2,000-120,000Hz</td> </tr> <tr> <td>BELUGA WHALE</td> <td>1,000-120,000Hz</td> </tr> <tr> <td>DOLPHIN</td> <td>75-150,000Hz</td> </tr> </table> 	HUMAN	20-20,000Hz	ELEPHANT	5-12,000Hz	DOG	50-45,000Hz	CAT	45-65,000Hz	MOUSE	1,000-100,000Hz	BAT	2,000-120,000Hz	BELUGA WHALE	1,000-120,000Hz	DOLPHIN	75-150,000Hz	A
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11.	4_24 Science 10323	Chapter 13 Sound	While drinking a soft drink, Shyam starts blowing into the mouth of the bottle and finds that it makes a sound. He challenges his friend Usha to make a sound of the same pitch using her bottle, which was smaller in size. In which of these arrangements will that happen?	<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;">  Liquid level same </td> <td style="text-align: center;">  Air column height same </td> <td style="text-align: center;">  Same percentage filled </td> <td style="text-align: center; vertical-align: middle;"> The pitch of sound will be the same in any of these or other cases. </td> </tr> </tbody> </table>	Answer Options				Option A	Option B	Option C	Option D	 Liquid level same	 Air column height same	 Same percentage filled	The pitch of sound will be the same in any of these or other cases.	B
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12.	4_24 Science 10345	Chapter 13 Sound	Earlier, remote control devices used a particular range of frequency. This range was withdrawn because these frequencies	Study the graph given here and answer the question.	D												

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			<p>were heard by dogs, though not by human beings. Which of the following frequency ranges would have been earlier used in a remote control device?</p>	<p style="text-align: center;">(The frequency axis uses the logarithmic scale)</p>												
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13.	<p style="text-align: center;">4_24 Science 10346</p>	Chapter 13 Sound	<p>Which of these animals could communicate with each other at a frequency greater than 70,000 hertz so that they are not heard by their predators?</p>	<p style="text-align: center;">(The frequency axis uses the logarithmic scale)</p> <p>Study the graph given here and answer the question.</p>	D											

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		Answer Options			
		Option A	Option B	Option C	Option D
		Elephant	Dog	Cat	Mouse

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14.	3_15 Science 3588	Chapter 13 Sound	During the class prize-giving ceremony, Anand clapped his hands hard while Kumar clapped his hands softly. Everybody could hear Anand's clapping while only a few could hear Kumar's clapping. This was because the sound produced by Anand was of_____.		C
Answer Options					
		Option A	Option B	Option C	Option D
		higher pitch	lower frequency	higher volume	lower pitch
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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15.	4_25 Science 12001	Chapter 13 Sound	A ship is stationary for some time in an ocean. The ocean is 10,500 m deep. An engineer from the ship sends a signal straight down into the water. How long will it take for the echo to reach him? (velocity of sound in water: 1.5 km/s)		C												
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