

Question Paper

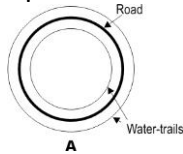
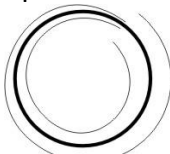
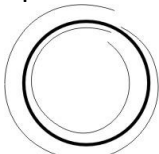
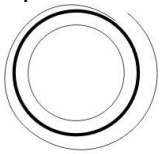
Subject: Science

Grade: 9th

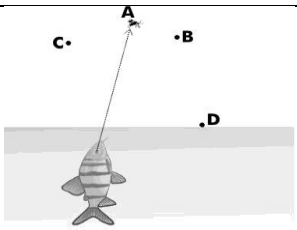
Set-7

Q.N	Folder name & Question Code	Topic	Question with Answer Option	Image (If Any)	Correct Answer (Option-A,B,C,D)
1	2_9 Science 6158	MOTION	A ball is thrown vertically upwards, and then caught again after 10seconds.Which of these graphs shows how its SPEED changes during its motion?		C
Answer Options					
		Option A	Option B	Option C	Option D

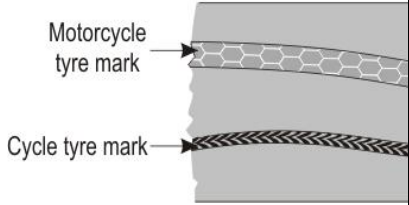
		<p style="text-align: center;">A</p>	<p style="text-align: center;">B</p>	<p style="text-align: center;">C</p>	<p style="text-align: center;">D</p>
2	2_9 Science 5083	MOTION	The rate of growth of hair on the human head has been estimated as about 0.44 mm per day. Assuming that this rate is uniform, about what LENGTH of hair (considering just 1 strand) would a normal male adult cut in 20 years?		B
Answer Options					
		Option A About 30 cm.	Option B About 3 m.	Option C About 30 m.	Option D About 300 m.
3	3_16 Science 2539	MOTION	A truck is carrying a water tank which has two taps on either side as shown in the figure. The taps are opened as the truck starts moving in the circular path at a constant speed. As the truck just completes the circle, the water in the tank runs out completely. What will be the shape of the water trail on the ground if seen from the top?		B
Answer Options					

		<p>Option A</p>  <p>A</p>	<p>Option B</p>  <p>B</p>	<p>Option C</p>  <p>C</p>	<p>Option D</p>  <p>D</p>
4	2_9 Science 6133	MOTION	<p>The unit of distance is metres. The unit of time is seconds. Hence the speed of a person who walks 100 metres in 50 seconds is 100m divided by 50 seconds which is 2 m/s or 2 metres per second. To find out the speed of gas moving through a large gas pipeline, an oil company measures that 10 kg of gas flows every 10 seconds. The mass flow rate is obtained by dividing the distance covered by the time taken to cover it. Then, the mass flow rate in the pipeline is expressed in the unit ---</p>		B

Answer Options


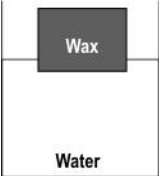
		<p>Option A m/s</p>	<p>Option B kg/s</p>	<p>Option C Kg/m</p>	<p>Option D s/kg</p>
5	3_16 Science 2529	Force and laws of motion	<p>Archer Fish are known to sight prey and then knock them off using a powerful jet of water. Where should the insect be for the Archer Fish to knock off the prey by using a powerful jet of water?</p>		

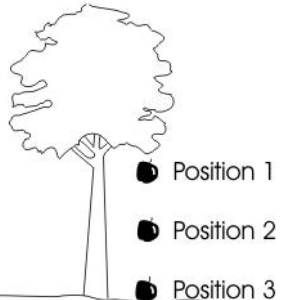
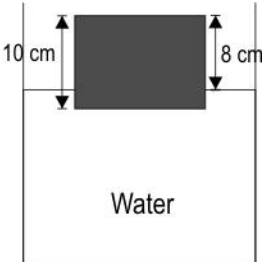
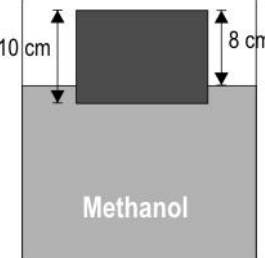
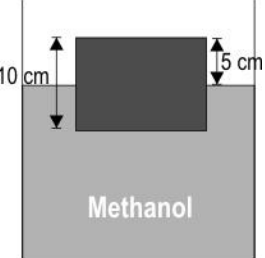
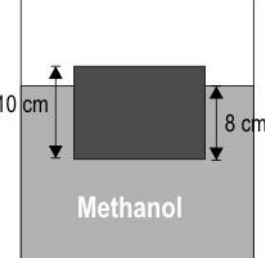
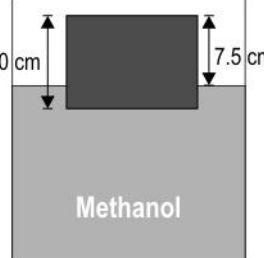
Answer Options

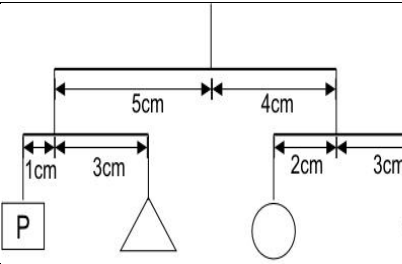
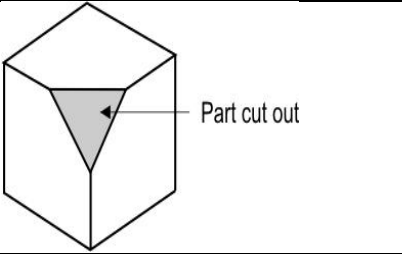
		Option A A	Option B B	Option C C	
6	3_15 Science 3670	Force and laws of motion	Tyre marks from a motorcycle and a bicycle are seen on a road. A square section of the road is made of concrete and does not display any marks. It is not possible for any vehicle to get off the road in the part shown .We can deduce WITH CERTAINTY:		

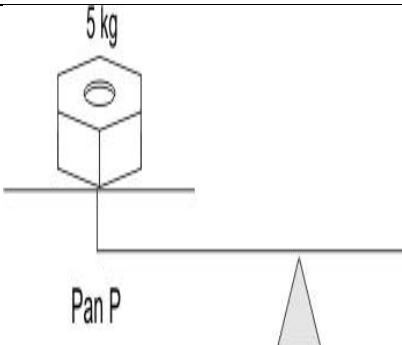
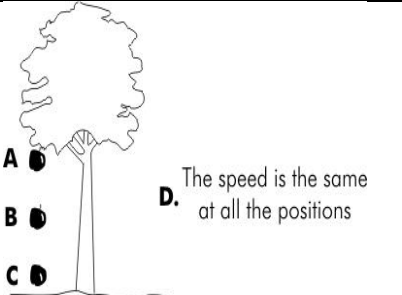
Answer Options

		Option A that the motorcycle passed before the cycle.	Option B that the cycle passed before the motorcycle .	Option C the cycle's direction of passing.	
7	1_3 Scienc e 7342	GRAVITATION Class -IX	A body has a mass of 2 kg. When will the mass of the body change?		D

		Option A When the body is taken to the moon.	Option B When the body is dropped from a height.	Option C When the body is being pulled along a smooth surface.	Option D The mass of the body will not change unless it is cut or broken.
8	1_3 Science 7360	GRAVITATION Class -IX	When a solid cube made of wax (density 0.9 g/cc) is placed in a beaker of alcohol (density 0.8 g/cc), it sinks (see figure 1). The same cube when placed in water (density 1g/cc), it floats (see figure 2). What will happen if the cube of wax is placed in vegetable oil (density 0.9 g/cc, almost the same as the wax itself)?	 <p>Figure 1</p>  <p>Figure 2</p>	D
		Option A It will sink to the bottom (same as figure 1).	Option B It will float (same as figure 2).	Option C It is not possible that a solid and liquid have the same density.	Option D The solid will stay in the liquid at any point it is placed without sinking or floating.

9	1_3 Science 6681	GRAVITATION Class -IX	The drawing shows an apple falling to the ground. In which of the three positions does gravity act on the apple?		D
		Option A 2 only	Option B 1 and 2 only	Option C 1 and 3 only	Option D 1, 2, and 3
10	1_3 Science 6683	GRAVITATION Class -IX	The density of cork is 0.2 g/cc. A 10 cm tall cubical piece of cork floats on water (density: 1 g/cc) as shown. Which of the diagrams correctly represents the same piece of cork when placed in methanol whose density is 0.8g/cc?		D
		<p>Option A</p> 	<p>Option B</p> 	<p>Option C</p> 	<p>Option D</p> 

11	1_3 Scienc e 6684	GRAVITATION Class -IX	The 'mobile' shown is completely balanced. The sticks and strings are weightless. If the mass of P is 30 grams, what is the mass of Q?		A
		Option A 20g	Option B 30g	Option C 40g	Option D 60g
12	2_9 Scienc e 6054	GRAVITATION Class -IX	A block of wood is cut as shown in the figure. What will happen to its mass, volume and density?		D
		Option A Mass and density will remain the same but volume will decrease.	Option B Mass and volume will remain the same but density will decrease.	Option C Mass remains the same but density and volume will decrease.	Option D Density will remain the same but mass and volume will decrease.
13	2_9 Scienc e 6056	GRAVITATION Class -IX	Generally the density of a solid is higher than its liquid form. This is NOT true for:		B

		Option A Wax	Option B Water	Option C Iron	Option D Sodium
14	2_9 Science 6072	GRAVITATION Class -IX	A beam is mounted on the fulcrum as shown. A 5 kg weight on pan P is balanced by placing a 2 kg weight on pan Q. Now a 2 kg weight is added to pan P. What must be added to Q to maintain the balance?		A
		Option A 0.8 kg	Option B 1.2kg	Option C 2 kg	Option D 5 kg
15	2_9 Science 5004	GRAVITATION Class -IX	An apple is falling from a tree. At which of the points shown is its speed the highest?		C
		Option A A	Option B B	Option C C	Option D D