## **Question Paper**

## Subject: Science

Grade: 9th

## Set-6

Q.N	Folder name & Questio n 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		

2	2_9 Science 6161	0 Time A MOTION	0   Time   10s     0   Time   10s     B   If the earth (which is revolving around the sun in the direction shown) is at P at 12:00:01 AM on January 1, 2000 a leap year, where will it be at 12:00:01 AM on January 1, 2001?	0 Time 10s	B B
		1	Answer Options	<u> </u>	<u> </u>
		Option A Exactly at the same position P.	Option B A little ahead of the position P.	Option C A little behind the position P.	Option D At the position Q shown.
3	2_9 Science	MOTION	Water is flowing through a pipe having a circular cross-section. The diameter of the pipe reduces in section P as shown. How will the speed of the water change in section P?	Section IP having reduced dameter Direction of water flow cross-section side view	A
	6166				

			Answer Options		
		Option A It will increase.	Option B It will reduce.	Option C It will stop altogether.	Option D It will not change.
4	3_15 Science 3645	MOTION	A truck driver drove 200 kilometres in 6 hours as shown in the graph. At which of the following times was the truck moving the slowest?	300- 250- 200- 150- 100- 50- 0 1 2 3 4 5 6 Time hours	В
			Answer Options		
		Option A About 1 hr after he started	Option B About 3 hrs after he started	Option C About 4.5 hrs after he started	Option D About 5.5 hrs after he started
5	3_15 Science 3657	MOTION	In which of these cases ROTATIONAL MOTION is not there?		В
			Answer Options	<u> </u>	

		Option A	Option B	Option C	Option D
		operating a pulley	hitting a shuttlecock	riding a bicycle	using a beam balance
6	3_16 Science 2529	Force and laws of motion	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?	A C· · ·B ,D	В
	1		Answer Options		
		Option A A	Option B B	Option C C	Option D D
7	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:	Motorcycle tyre mark Cycle tyre mark	В
			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.	Option D the motorcycle 's direction of passing.

	2_9	Work and Energy	When Ram was about to switch on the		С
	Science		light in his room, his sister stopped him.		
			She told him that he should first DRY his		
	5061		hands (which were wet), before touching		
			the electric switch.(Was Ram's sister		
			correct? )Why / why not?		
			Answer Options		
<u> </u>					
		Option A	Option B	Option C	Option D
		Yes. The water can	No. We should be careful in any case - dry	Yes. Wetness reduces body	No. Water is a poor
		cause a short	or wet makes no difference.	resistance and increases	conductor of
		circuit (There is no		danger of shock.	electricity, hence wet
		increased danger			fingers are safer.
-		to Ram)	Deside as a second standard stand	411	
9	2.0	Work and Energy	Resistors are semi-conductor devices		D
	2_9 Science		which are important components of electronic circuits. Resistance is measured	Back Black Back Back Back Back Back Back Back B	
	5062			Red Orange Rev 2 XXV Revol. 3 XXVIII and Water In Water and Water In Wate	
	5002		in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may	104 6 X2000 r N 1027 7	
			be fixed in any orientation, its resistance		
			value is coded on it using coloured bands		
			rather than writing its resistance value on		
			it. A colour code is used to determine the		
			value of a resistor as per this table. What		
			is the resistance of the resistor shown		
			here?		
			Answer Options	1	
			Answer Options		

		Option A	Option B	Option C	Option D
		1000 ohms	20 ohms	2000 ohms	20000 ohms
10	2_9 Science 5063	Work and Energy	Resistors are semi-conductor devices which are important components of electronic circuits. Resistance is measured in OHMS, and each resistor has a rating in ohms. Because a resistor is small and may be fixed in any orientation, its resistance value is coded on it using coloured bands rather than writing its resistance value on it. A colour code is used to determine the value of a resistor as per this table. Which three colour bands represent 600 ohms? <b>Answer Options</b>	Ist and 2nd Digit   Colour Band Represented   BLACK 0   X1 The first two bands represent 2 digits as per the Represented colum.   RED 2   ORANGE 3   X1000 or 1K   YELLOW 4   X10,000 or 10K   GREEN 5   SULUE 6   X1,000,000 or 10K   UDLET 7   GRAY 8   WHITE 9	Α
		Option A Blue, Black, Brown	Option B Blue, Black, Brown	Option C Brown, Blue, Black	Option D Violet, Blue, Brown
11	3_16 Science 2516	Work and Energy	Which are the bulbs connected in series with each other and which are connected in parallel in the circuit shown here?	Bulb 1 Bulb 2 Bulb 2 Bulb 4 Bulb 3 Bulb 4 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 3 Bulb 4 Bulb 4 Bulb 3 Bulb 4 Bulb 4 Bu	В

Answer Options					
		Option A A	Option B B	Option C C	Option D D
.2	2_9 Science 6169	Work and Energy	In the circuit given below, electricity will flow if there is a closed path from P to Q. Switches $S_2$ and $S_3$ will not allow electricity to flow if either is open. In which of these cases will current flow?		A
			Answer Options		
		Option A S <sub>1</sub> and S <sub>4</sub> are open; others are closed.	Option B $S_2$ and $S_4$ are open; others are closed.	Option C $S_1$ and $S_2$ are open; others are closed.	Option D S₃and S₄ are open; others are closed.
13	3_15 Science 3632	Work and Energy	Nuclear power plants can produce energy more cheaply and with less pollution than thermal power plants. Why are there not more nuclear power plants than thermal		D
			power plants? Answer Options		

		Option A There is an endless supply of fossil fuels like coal available.	Option B Nuclear fuels produce too little heat during the nuclear fission reaction	Option C A kilogram of fossil fuel produces more energy than a kilogram of nuclear fuel.	Option D The issue of disposal of radioactive nuclear waste is not satisfactorily resolved.
14	3_16 Science 2502	WORK AND ENERGY	In the diagram below, a 20 Newton force is used to push a 2 kilogram toy cart a distance of 5 meters. The work done on the cart is	2 Kg.	В
			Answer Options		
		Option A 40 J	Option B 100 J	Option C 150 J	Option D 200 J
15	2_9 Science 5085	WORK AND ENERGY	Which of these provides the energy for the motion of a petrol car?		A
			Answer Options		<u> </u>
		Option A	Option B	Option C	Option D
		Petrol	Its battery	Its engine	Petrol and its battery