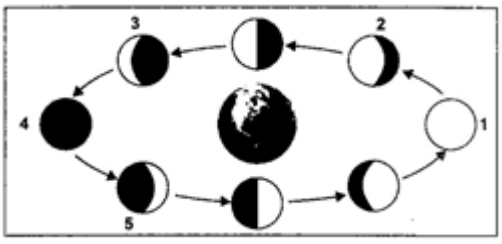
Name		Roll Number	

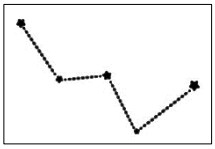
INDIAN SCHOOL MUSCAT
MIDDLE SECTION
FIRST PERIODIC TEST 2022-23

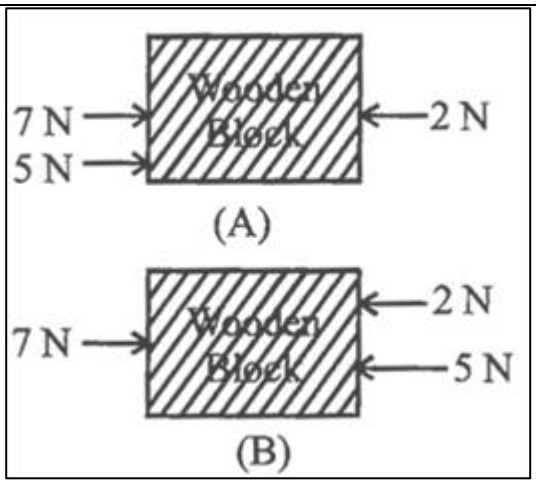
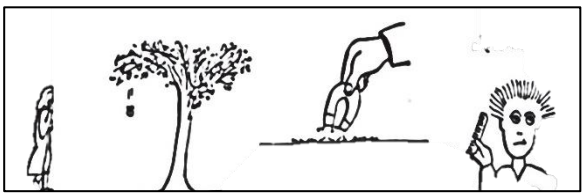
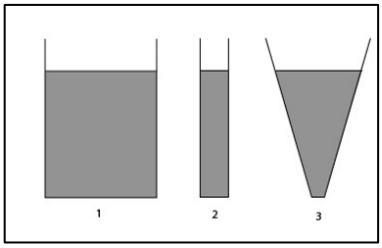
	SCIENCE – SET A	Code: MZSC08
CLASS: VIII		Time Allotted: 40 minutes.
23.05.2022	**ANSWER KEY**	Max. Marks: 20 Marks obtained:

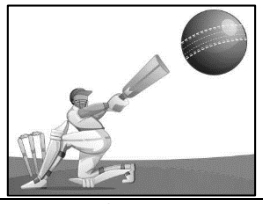
General Instructions:

1. **All** questions are **compulsory.**
2. **All answers should be written in the space provided in the question paper.**

Q.NO.	**SECTION A**		
	MULTIPLE CHOICE QUESTIONS		Marks
1	The first artificial satellite was the a. IRS b. Sputnik- 1 c. Aryabhatta d. INSAT	B	1
2	Assertion (A): In the Halley comet, the tail is always directed away from the sun. Reason (R): As it gets closer to the Sun, it begins to get heated up and the tail grows in size, thus it is directed away, due to the pressure of solar radiations. a. Both A and R are true and R is the correct explanation of A b. Both A and R are true but R is not the correct explanation of A c. A is true but R is false d. A is false but R is true	A	1
3	Phases of the Moon are as shown in the figure. Which of the following options shows the correct labelling?  	A	1

	a. 1 - Full Moon, 2 - Waning gibbous Moon, 3 - Waning crescent Moon, 4 - New Moon, 5 - Waxing crescent Moon b. 1 - New Moon, 2 - Waxing gibbous Moon, 3 - Waning crescent Moon, 4 - Full Moon, 5 - Waxing crescent Moon c. 1 - Waning crescent Moon, 2 - Waning gibbous Moon, 3 - Full Moon, 4 - New Moon, 5 - Waxing crescent Moon d. 1 - New Moon, 2 - Waning gibbous Moon, 3 - Waning crescent Moon, 4 - Full Moon, 5 - Waxing gibbous Moon		
4	If I am 12 years old, I have gone round the sun ___ times. a. 24 b. 12 c. 120 d. Only 10 times	B	1
5	Tim and Tanner were stargazing. Suddenly they spotted a group of stars forming the shape given in the figure below. Help them identify this constellation.  a. Orion b. Libra c. Ursa major d. Cassiopeia	D	1
6	Distance travelled by light in one year is called _____ a. Celestial distance b. Sound year c. Light year d. Light minute	C	1
7	What is the S. I. unit of force? a. Newton b. Dyne c. Pascal d. Watt	A	1
8	The strength of force is expressed by its _____ a. Weight b. mass c. magnitude d. longitudinal force	C	1
9	How much pressure will be applied on a body? If a force of 400N is applied on $2m^2$ surface area . a. 20Pa b. 800Pa c. 200Pa d. 4Pa	C	1
10	In which condition the wooden block will move?		1

	 a. A b. B c. Both A and B d. None of these	A	
11	In the figure given below, are the different types of forces shown, select the correct type of force, in the order of images from left to right.  a. Frictional force, muscular force, drag force- non contact forces b. Gravitational force, magnetic force, electrostatic force-non contact forces c. Gravitational force, muscular force, electrostatic force- contact forces d. Gravitational force, magnetic force, frictional force- contact forces	B	1
12	Observe the given containers 1, 2, 3. Based on the images, conclude which container has the highest liquid pressure at the bottom.  a. 1 because it has the maximum volume of fluid b. 2 because it has the least volume of fluid c. 3 because its bottom has the least surface area d. All three have the same pressure at the bottom	D	1
	SECTION B		

	ANSWER IN ONE WORD OR ONE SENTENCE	
1	Name the star that appears stationary from the earth. Pole star/Polaris/ Dhruv Tara	1
2	What is the source of the sun's heat and light energy? Nuclear fusion reaction/ Hydrogen and Helium	1
3	A batsman hits the ball for a boundary past the bowler- four runs. What is the effect of force, in this situation? Change in speed and direction 	1
4	Calculate force in newton, if pressure exerted is 50Pa over an area of $5m^2$ P= 50Pa A= $5m^{2.}$ F= A × P 5 × 50= 250N F= 250N	1
	ANSWER THE FOLLOWING IN TWO SENTENCES	
5	a. Write one point of difference between meteor and meteorite. b. Why does planet Uranus appear as if it is rolling along on its orbit? **A. Piece of space rock burning up in the earth's atmosphere is meteor.** **A Meteoroid that survives its passage through the Earth's atmosphere and lands upon the Earth's surface is called a meteorite.** **B. Uranus has a highly tilted rotational axis. As a result, in its orbital motion it appears to roll on its side.**	1+1=2
6	a. Buses and trucks have wider wheels. Why? b. How does a drinking straw work? Explain. **A. Large and wide wheels have a larger surface area. Pressure is inversely proportional to surface area. So, for a given force the pressure will be reduced with a larger surface area.** **B. When a man sucks up the fluid from straw the pressure inside is moderately low while the atmospheric pressure outside is high. This pushes up the fluid into straw.**	1+1=2