MBS INTERNATIONAL SCHOOL
SECTOR-11, DWARKA
PRACTICE PAPER
SESSION- 2019-20
SCIENCE
CLASS –IX

Time allowed: **Maximum Marks: 40**

General Instructions:
1. The question paper comprises of three sections – A, B and C. Attempt all the sections.
2. All questions are compulsory.
3. Internal choice is given in each section.
4. All questions in Section A are of one-mark questions comprising MCQ, VSA type and
*   assertion-reason type questions. They are to be answered in one word or in one sentence.*
5. All questions in Section B are of three-marks, short-answer type questions. These are to be
*   answered in about 50 - 60 words each.*
6. All questions in Section C are of five-marks, long-answer type questions. These are to be
*   answered in about 80 – 90 words each.*

	SECTION- A(1 mark)	
1	Convert the following temperature to the Kelvin scale: a. 100˚C b. 373˚C	1
2	Write the name of the phylum to which the King Cobra belongs- a.Arthropoda b. Annelida c.Chordata d. None of these	1
3	Find the frequency of a wave whose time period is 0.002 second. a)500sec b)1000sec c)50sec d) 5 sec	1
4	How ozone layer is useful to us?	1

5	The S.I. unit of force is
	    I. Kgm/s II. Kgm/s^2
	    III. Newton IV. Newton-meter	

6	The flexibility in plants is due to a tissue called- a.parenchyma b. chlorenchyma c.sclerenchyma d. collenchyma	1
7	**Answer the given question on the basis of your understanding of the following paragraph and the related studied concepts.** Particles of matter are always moving and are never at rest. In case of liquids a small fraction of particles at the surface having higher kinetic energy is able to break away from the forces	1

	of attraction of other particles and gets converted into vapour. Name and define the phenomenon taking place in the above paragraph.	
	SECTION-B (3 marks)	
8	a.Write the chemical formulae of the following: i. Aluminium chloride ii. Calcium carbonate b. Calculate the number of atoms in each of the following: i. 2.3 gram sodium ii.46.8 gram potassium **OR** a. State the effect of: i.surface area ii. temperature on the rate of evaporation b.Classify the following as element, compound and mixture: Iron, sea water, milk c. Name the technique to separate i.camphor from salt ii.oil from water	3
9	Health is not merely absence of diseases. How can we define health? Classify diseases on the basis of a.Duration of the diseases. b.Cause of the diseases.	3
10	Draw a labeled diagram of parenchyma and sclerenchyma.	3

11	Explain the following:
	    (a) An object increases its energy when raised through a height.
	    (b) Energy is neither created nor destroyed then from where dowe get energy.
	    (c) When we push the wall, the wall does not move and no work is done.
		3

12	Define acceleration and state its SI unit. For motion along a straight line, when do we consider the acceleration to be (i) positive (ii) negative? Give an example of a body in uniform acceleration. OR The mass of earth is $6x10^{24}$ kg and that of the moon is $7.4x 10^{22}$kg. If the distance between the earth and the moon is 3.84x105km. Calculate the force exerted by the earth and the moon. $G=6.67x10-11$ Nm^2 kg^{-2}	1+1 +1
13	From a rifle of mass 5kg, a bullet of mass 50gram is fired with an initial velocity of 50m/s. Calculate the initial recoil velocity of the rifle.	1.5+ 1.5
	SECTION C(5 marks)	
14	An atom of an element has four electrons in the third shell, which is the outermost shell. Write: a. the electronic configuration b. the atomic number c. valency d. number of protons	5

	e. the name of the element **OR** Explain why? a. Clothes gets dry faster in summer than in rainy season. b. Perspiration takes place when we run or play for sometime. c. Burning caused due to steam is much severe than caused by boiling water at 373K. d. We should wear cotton clothes in summer. e. Cooling effect of ice at 0˚C is more than same amount of water at 0˚C.	
15	Draw neat and labeled diagram of nitrogen cycle and explain all the steps involved.	5
16	A car falls of a ledge and drops to the ground in 0.5 s. Let g= 10 ms-2 a. What is its speed on touching the ground? b. What is its average speed during 0.5s? c. How high is the ledge from the ground?	5