

# साधना देवी विद्यापीठ

Punjabi Colony (Dharampur) Samastipur. 848101 (Bihar)  
Half Yearly Examination- 2019-20

Class :- VIII  
Sub :- Science

Time :-2:30hrs  
F.M. :-100

Phy+Che

1. Fill in the blanks. 10

- (i) ..... fibre is very comfortable to wear in summer and humid weather.
- (ii) ..... is also called artificial silk.
- (iii) The force between electrical charges is called ..... force.
- (iv) It is not easy to cut a fruit with a ..... knife.
- (v) ..... is the hardest known non metal.
- (vi) Melting point of most of the metals is ..... than non-metals.
- (vii) Oil and grease ..... friction and are called .....
- (viii) Friction causes ..... of energy.
- (ix) The number of oscillation per second is called .....
- (x) Sound is produced due to .....

2. Tick (✓) the correct options. 10

- (i) Which of the following is a synthetic fibre ?  
(a) cotton (b) wool (c) silk (d)  nylon
- (ii) A plastic comb attracts small pieces of paper due to  
(a) gravitational force (b)  electrostatic force  
(c) Magnetic force (d) All of these
- (iii) The weight of an object is due to  
(a)  force of gravity (b) friction  
(c) magnet (d) electrostatic force
- (iv) Which of the following is a thermosetting plastic ?  
(a)  polythene (b) melamine (c) PET (d) polyvinyl chloride
- (v) Which of the following is the most reactive metal ?  
(a) gold (b)  copper (c) sodium (d) iron
- (vi) Talcum powder is used on the carrom board.  
(a) to increase friction (b)  to reduce friction  
(c) to make surface shine (d) to make the surface tough
- (vii) It is difficult to walk on ice because.  
(a) it is too cold (b)  friction is less  
(c) friction is more (d) surface is wet
- (viii) Vibration with high frequency will have a  
(a) low pitch (b)  high pitch (c) soft voice (d) loud voice
- (ix) Sound of which frequency can be heard by the human ear.  
(a) 60 HZ (b) 600 Hz (c)  20,000 Hz (d) all of above
- (x) Which of the following is the unit of frequency ?  
(a) metre (b) per metre (c) second (d)  per second

PTO

3. Match the columns.

- |                           |                                    |
|---------------------------|------------------------------------|
| (i) Magnet                | (a) force between electric charges |
| (ii) Pascal               | (b) attracts iron nails            |
| (iii) Gravitational force | (c) force per unit area            |
| (iv) pressure             | (d) planets around the sun         |
| (v) Electrostatic force   | (e) Unit of pressure.              |

4. Give one word for the following.

- |   |   |
|---|---|
| (i) Time taken to complete one oscillation. | (ii) A substance used to reduce friction. |
| (iii) A force that attract iron objects.    | (iv) Non-metal which is very hard.        |
| (v) SI unit of force.                       |   |

5. Give reasons for the following.

- (i) The pillars of bridges and flyovers have a broad base.
- (ii) Lubricants reduce friction.
- (iii) Sound cannot be heard in Vacuum. *Because there are no medium*
- (iv) Nylon derives its name from two cities. *New York and London.*
- (v) Rough surface has greater friction than smooth surface. *Because they are first made in*

6. Answer the following.

- (i) Compare the properties of metals and non-metals on the basis of the following.  
(a) ductility (b) malleability (c) conductivity of heat and electricity
- (ii) Explain in detail, the preparation of rayon fibre. Give reason, why is it called artificial silk.
- (iii) What will be the area of the object on which the force of 200N acts to produce a pressure of 600 Pa ?
- (iv) Explain the disadvantage of friction with examples.
- (v) Explain in detail the harmful effects of noise pollution on health.

7. Define.

- |                            |                |                           |
|----------------------------|----------------|---------------------------|
| (i) Thermosetting plastics | (ii) Corrosion | (iii) Gravitational force |
| (iv) Fluid friction        | (v) Frequency  |                           |

**BIO**

1. Define term.

- |                      |                 |                    |
|----------------------|-----------------|--------------------|
| (i) Animal Husbandry | (ii) Pesticides | (iii) Fermentation |
| (iv) Pathogen        | (v) Migration   |                    |

2. Give reason for the following:

- |                        |                          |                                   |
|------------------------|--------------------------|-----------------------------------|
| (i) Souring of milk    | (ii) Food poisoning      | (iii) Addition of oils in pickles |
| (iv) Breads are fluffy | (v) Bread mould on bread |                                   |

3. Short answer.

- (i) What does NSC stand for ?
- (ii) How can we control weeds ?
- (iii) What are antibiotic ?
- (iv) What is biodiversity ?
- (v) Why is it important to conserve plants and animals ?

4. Long answer type. *to help maintain the ecological balance*

- (i) What is Red data book ? How does it help to conserve animals and plant species around the world ?
- (ii) Describe step of making bread and making cheese.
- (iii) Explain the steps involved in crop production.