

**VILLA THERESA HIGH SCHOOL, MUMBAI**

Std: - 5A/B

Final Examination – February 2021

Time: - 45 mins

Date: - 23/02/21

Subject: - Science

Marks: - 30

**Q.I] Choose the correct answer from the options given below:**

**[5]**

- 1) A machine is a tool which:  
a) Saves our time  
b) Needs less effort  
c) Makes work easier  
d) All of these
  
- 2) Whenever work is done, there is always a \_\_\_\_\_ of energy.  
a) Exchange  
b) Change or transfer  
c) Interchange  
d) None of the above
  
- 3) Shadows are always formed on the \_\_\_\_\_ side of the source of light.  
a) Opposite  
b) Same  
c) Left hand  
d) None of the above
  
- 4) The movement of earth around the sun in its orbit is called \_\_\_\_\_.  
a) Rotation  
b) Eclipse  
c) Revolution  
d) None of the above
  
- 5) A \_\_\_\_\_ is a rigid bar resting on a pivot.  
a) Lever  
b) Fulcrum  
c) Load  
d) Effort

**Q.II] Correct and rewrite the statements given below by changing the underlined words.**

**[4]**

- 1) The energy that an object possesses due to its position or its movement is called light energy.
- 2) A wedge is a tilted surface or a slope used to move heavy load with less effort.
- 3) Solar energy is obtained from moving air.
- 4) Light travels in a circular path.

**Q.III] Match the following:**

**[5]**

| Column A                  | Column B                    |
|---------------------------|-----------------------------|
| 1) Ability to do work     | a) Used to lift cars        |
| 2) Non – renewable energy | b) Causes day and night     |
| 3) Screw jacks            | c) Energy                   |
| 4) Rotation               | d) Shadows are longest      |
| 5) Afternoon              | e) Coal                     |
|                           | f) Shadows are shortest     |
|                           | g) Causes change of seasons |

**Q.IV] Give two examples for each of the following:**

**[5]**

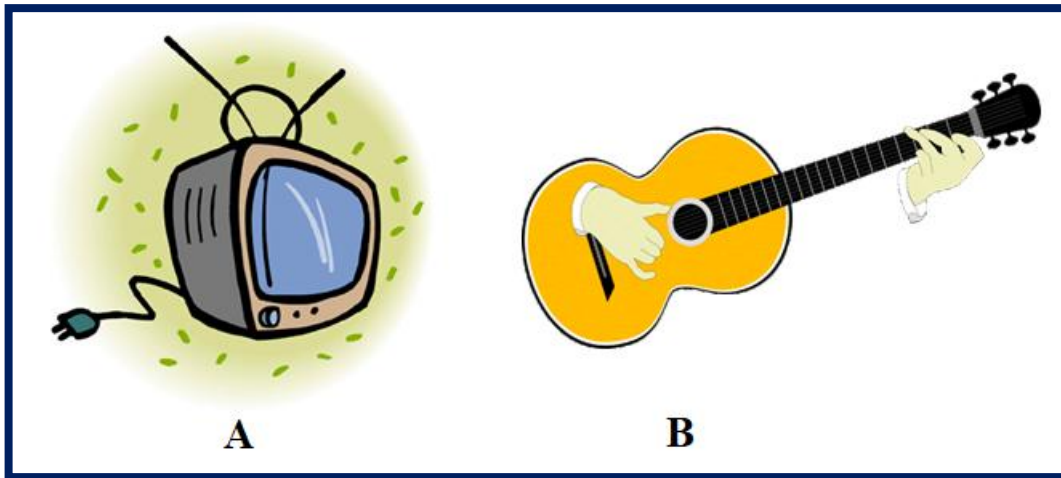
- 1) Renewable energy – \_\_\_\_\_ : \_\_\_\_\_
- 2) Translucent object – \_\_\_\_\_ : \_\_\_\_\_
- 3) Natural source of light – \_\_\_\_\_ ; \_\_\_\_\_
- 4) Wheel and axle – \_\_\_\_\_ : \_\_\_\_\_
- 5) Wedge – \_\_\_\_\_ : \_\_\_\_\_

**Q.V] Observe the diagrams given below and answer the following questions:**

**[5]**

1) Identify the form of energy in each of the images given below.

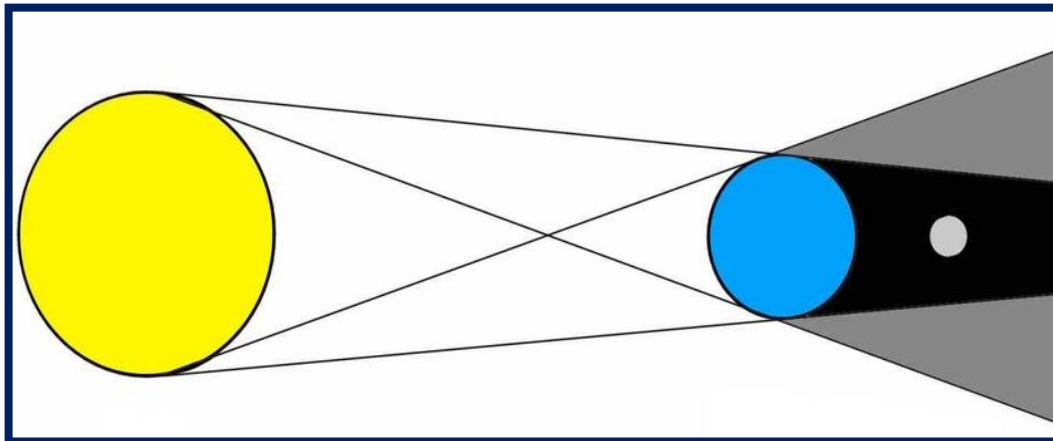
**[1]**



- a) \_\_\_\_\_ b) \_\_\_\_\_

2) Identify the type of eclipse.

**[1]**



- a) \_\_\_\_\_

3) In the following images

a) Identify the class of lever

b) Mention the position of load, effort and fulcrum.



a) \_\_\_\_\_

b) \_\_\_\_\_



a) \_\_\_\_\_

b) \_\_\_\_\_



a) \_\_\_\_\_

b) \_\_\_\_\_

**Q.VI] Answer the following questions:**

- 1) What is a Shadow? State the three conditions required for the formation of a shadow.
- 2) What is a pulley? Name the two types of pulleys with an example for each.
- 3) Define work. Give an example of work done.

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