

Papa Gablu Home Physics Exam (Force and Pressure)

Date: September 3

Instructions:

- 1. Answer all the questions.*
- 2. Write legibly and be clear with your answers.*
- 3. Marks will be awarded for handwriting.*

Fill in the Blanks: (1 mark each)

1. To draw water from a well, we have to _____ at the rope. [_____]
2. A charged body _____ an uncharged body towards it. [_____]
3. To move a loaded trolley, we have to either _____ or _____ it. [_____]
4. The north pole of a magnet _____ the north pole of another magnet. [_____]
5. An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target. To stretch the bow, the archer applies a force that causes a change in its _____. [_____]
6. The force applied by the archer to stretch the bow is an example of _____ force. [_____]

True or False: (1 mark each)

1. Pushing a bicycle is an example of applying a force to change the state of motion. [_____]

2. Kneading the dough does not cause any change in its shape. [_____]
3. To draw water from a well, we push the rope. [_____]
4. The south pole of a magnet repels the north pole of another magnet. [_____]
5. The force applied by the archer to release the arrow is an example of muscular force. [_____]

Short Answer Type Questions: (2 marks each)

1. What happens when you press an inflated balloon?

2. Name the force responsible for a change in the state of motion of the arrow when an archer releases it.

3. Give an example where you apply force to change the shape of an object.

4. What kind of force is applied to draw water from a well?

5. Mention a situation where a charged body interacts with an uncharged body.

Long Answer Type Questions: (5 marks each)

1. Explain the different situations in which you apply force to change the state of motion of objects. Provide examples for both pushing and pulling.

2. Describe how a charged body can interact with another body. What happens when the other body is uncharged?

3. Discuss the role of force in changing the shape of objects. Give two examples to illustrate your answer.

4. Elaborate on the types of forces applied in our daily life situations and explain how they influence the motion or shape of objects.

Handwriting: (5 marks)

Marks for Handwriting: [_____]