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Marks: 20mar

STD: VIII

TT - SCIENCE

Time: 40 min

I. Answer in one words:

5x1=5

1. Gravitational force acts in \_\_\_\_\_ direction.
2. Muscular force is applied by our hands to lift the bucket in \_\_\_\_\_ direction.
3. When the forces are balancing each other and no change is found in its state of motion, then the net force becomes \_\_\_\_\_.
4. The type of force responsible for a \_\_\_\_\_ in the state of motion of an object.
5. Frictional force is due to \_\_\_\_\_.

II. Answer in short answer:

3x2=6

6. Give two example of situations in which you push or pull to change the state of motion of objects.
7. Give two examples of situation in which applied force causes a change in the shape of an objects.
8. A black smith hammers a hot piece of iron while making a tool. How does this force due to hammering affect the piece of iron?

III. Answer in paragraph:

3x3=9

9. An archer stretches her bow while taking aim at the target she then releases the arrow, which begins to move towards the target. Based on this information fill up the gaps in the following. statements using the following terms. (Muscular, contact, gravity, friction shape, attraction).
  - a) To stretch the bow, the archer applies a force causes a change in its \_\_\_\_.
  - b) The force applied by the archer to stretch the bow is an example of \_\_\_\_\_ force.
  - c) The type of force responsible for a change in state motion of the arrow is an example of a \_\_\_\_\_ force.
10. What is the relation between force and interaction.
11. An inflated balloon was pressed against a wall after it has been rubbed with a piece of synthetic cloth. It was found that the balloon sticks to the wall. What force might be responsible for the attraction between the balloon and the wall?