Bharatiya Vidya Bhavan's V.M. Public School

Chapter – 12 : Force and Pressure

I. Fill in the blanks :

1. A push or pull on an object is called a _____.
2. The state of motion of an object is described by its _____ and the direction of motion
3. The force resulting due to the action of muscles is known as _____ force.
4. Muscular force is also called as _____ force.
5. The force exerted by a magnet and electrostatic force are examples _____ force.
6. Every object in the universe exerts a force on every other object called _____ force.
7. The force acting on a unit area of a surface is called _____.
8. Pressure in liquids _____ with the increase in depth of the liquid column.
9. A manometer helps us to measure_____.

II. Choose the correct answer :

1. Which of the following will exert the maximum pressure on ground while moving

   a) an elephant b) A girl wearing a pencil heel c) Rhinoceros d) Camel

2. Force can change

   a) Only position of object b) Only speed of object c) Only direction of moving object d) All the above

3. Which of the following is not a non-contact force

   a) gravitational force b) electrostatic force c) muscular force d) All of them

4. A force has

   a) magnitude b) direction c) both of them d) None of them

5. Which type of force is acting when hair is being pulled by a charged comb

   a) Contact force b) Non-contact force c) both of them d) None of them

III Answer the following :

1. What is meant by atmospheric pressure?
2. What is the relation between force and pressure?
3. What are the units in which pressure is measured?
4. A man first stands and then lies down on a sandy beach. In which case will he sink deeper and why?
5. Describe and experiment to show that air exert pressure.
6. What is likely to happen to a man, used to living in plains, when he goes to high mountains?
7. Why is it easier to cut with a sharp knife than a blunt one?
8. Trucks and busses generally have double wheels at the back. Why?
9. How does density of a liquid affect the pressure?
10. Why is it easy to glide on snow on a pair of skis?

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