SUMMATIVE ASSESSMENT 1
G. SCIENCE
Class VIII
ASSIGNMENT NO:10
Unit-11 FORCE AND PRESSURE

Q1) Fill in the blanks

a. A force arises due to _____ between two objects.

b. An example of a non-contact force is _____.

c. The pressure exerted by air around us is known as _____.

d. Strength of the force is expressed by its _____.

e. Application of force can change the _____, _____ and _____ of an object.

f. Force exerted by our muscles is called _____ force.

g. Direction of force of friction is always _____ to the direction of motion.

h. Force per unit area is called _____.

Q2) Complete the following sentences:

a. If two equal forces act in the opposite directions on an object, the net force acting on it is _____.

b. It is easier to cut with a sharp knife than with a blunt one because _____ _____.

c. Porters place a round piece of cloth on their heads, when they have to carry heavy loads because _____.

Q3) Give four effects of force. Write one example of each.

Q4) Name a) the force exerted by all matter on all other matter
b) the force which tends to slow down objects or keep them from moving
c) the force with which a charged body attracts an uncharged body.

Q5) An example of a contact force is

1) Magnetic force
2) Frictional force
3) Gravitational force
4) All of these

Q6) A Force cannot change the

1) Speed of an object
2) Mass of an object
3) Shape of an object
4) The direction of a moving object

Q7) The pull of the earth is a force called

a) Gravitational force
b) Frictional force
c) Electrostatic forces
d) None of these

Q8) If a force is applied on a smaller area of contact, the pressure exerted by it is

1) Greater
2) Lesser
3) The same
4) None of these

Q9) Why do the pillars holding the track of Metro trains have a broader base?

Q10) Define Pressure. Explain why shoulder bags are provided with broad straps and not thin strap.

Q11) Describe an activity to show that

(i) the pressure exerted by a liquid at the bottom of the container, depends on the height of its column.
(ii) liquids exert pressure on the walls of the container.
(iii) liquids exert equal pressure at the same depth.

Q12) Explain why we do not feel the atmospheric pressure.

Q 13) A ball rolling on the ground comes to rest after some time. Name the force involved.

Q 14) Explain the following types of forces. Give one example where each of these could be found operating:

a. Magnetic force
b. Gravitational force
c) Electrostatic force
d) Frictional force

Q15) Bhola was impressed by the miracle performed by baba Shyamdev, when Baba lied down on a bed of nails. The nails did not hurt him. Bhola narrated this miracle to his friend Rahul. Rahul explained to Bhola that, there is no magic or miracle here. Even he can do the same trick.

(a) Why did Rahul say that , there is no miracle in this trick? Why did Baba Shaymdev not hurt himself?
(b) Which quality is shown by Rahul here?