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FIRST TERM EXAMINATION/EVALUATION 1-June 2022-23

WORKSHEET NO 2

GRADE: VIII

SUBJECT: SCIENCE

1. A basketball player is standing 6 m from the basketball hoop. He is getting ready to shoot the ball through the hoop.

How would more or less force affect the throw, and why?

2. Sam was playing with a small iron ball and magnet. He observed an attractive force between the iron ball and the magnet. The ball slipped from his hand, fell, and started rolling on the floor.

Name the 3 forces that acted on the ball and state whether these forces are contact forces or non-contact forces.

3. Forces acting together can cause objects to stay still, move at a constant rate, speed up, or slow down.

Look at the picture of a man floating on the surface of the Dead Sea and observe the forces acting on him.

Answer the questions



A. Are the forces acting on the man in the picture balanced or unbalanced? Calculate the resultant force.

B. If the weight force of the man is 60 N, what is the value of the buoyant force acting on him?

5. A force acts between two irregular surfaces that move over each other. This force changes the energy of motion to heat energy.

What force acts between our hands when we rub them together? How does the action of rubbing hands help?

7. In which of these actions can friction be hazardous? Choose the correct answer.

- A. Writing with a pen
- B. Running on a grass field
- C. Deflated tyre spinning at a high speed
- D. Ball bearings used in between moving parts of a machine

8. Choose the correct options to complete the sentences

skid frictional frictional less

To move anything, we need to overcome the _____ (frictional/magnetic) force. While walking on a pavement, if we suddenly step on a patch of ice, we may _____ (run/skid) if we are not careful. This is because the _____ (frictional/gravitational/magnetic) force offered by ice is much _____ (more/less) than that offered by the pavement.

9. Arrange the surfaces in the increasing order of frictional force that they will offer on any object

- A. Wood
- B. Grass field
- C. Thermocol sheet
- D. Glass

10. Choose if True or False.

- A. The use of lubricants increases the frictional force.
- B. Treads help tyres to maintain their grip on the road.