

**BHARATI PUBLIC SCHOOL
SIR GANGARAM HOSPITAL MARG
SUMMATIVE ASSESSMENT No.1
GENERAL SCIENCE
CLASS-8
Assignment no. 8
Ch- 12 Friction**

Q1 Fill in the blanks:

- i) Force acting on a body can be measured by a -----.
- ii) Friction is caused by the ----- on the two surfaces in contact
- iii) Frictional force exerted by fluids is also called -----
- iv) The frictional force on an object in a fluid depends on its -----,----- and-----.
- v) ----- can be used to reduce friction
- vi) -----is also produced with friction.
- vii) Shape of the objects moving in the fluid is ----- to overcome friction exerted by liquids.
- viii)----- are used in the machines to protect their surfaces from wear due to friction.
- ix)Soapy floor is slippery due to ----- friction.
- x)Ball bearing are used to convert static friction into ----- friction.

Q2 Why is it difficult to walk on a smooth and wet floor?

Q3 Why front portion of an aeroplane has a spherical shape or is streamlined?

Q4 On what principle do ball bearings work?

Q5 Give construction and working of a spring balance. Draw the diagram also.

Q6 “ force of friction is much greater on a rough surface”

Q7 Give some advantages of friction.

Q8 Write two advantages of rolling friction.

Q9 Mention two ways to reduce friction?

Q10 differentiate between static and sliding friction.

Q 11 a) Two objects, A and B, one over the other, are moving with the same velocity.

Which of the following statements is correct?

- A) Friction on A is in the forward direction.
- B) Friction on A is in the backward direction.
- C) Friction on B is in the forward direction.
- D) No friction acts between A and B.

b) When we rub our palms together vigorously, they become warm because

muscular energy is converted into heat energy due to the friction between the

palms.

A) True

B) False

Q. 12 What kind of tyres are used in the racing cars and why?