

Time : 45 Min.

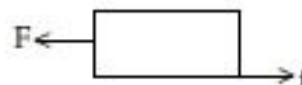
Marks : 20

	Project Work	Lab Activity	Written Works	Slip Test	Total
Allotted Marks	10	10	10	20	50
Scored Marks					

I. Answer the following questions :

4 x 1 = 4 M

1. What is normal force ?
2. How many forces are acting on the brick in horizontal direction ?



3. What is a free body diagram ?
4. Explain why it is convenient to pull the luggages fitted with rollers ?

II. Answer the following questions :

3 x 2 = 6 M

5. What should we have to do to increase the limiting weight ?
6. Have you ever seen a game of tug-of-war ? In this game two teams pull at a rope in opposite direction. All members of either team try to pull the rope in their direction. Sometimes the rope simply does not move. Explain why.
7. Why is friction important for transport ?