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Std. VIIIth ICSE
Date: / /2024

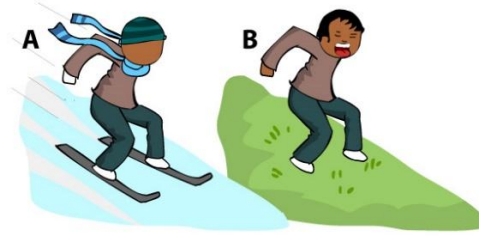
Physics
Friction

Marks:30
Time: 1hr

Q.1	Fill in the blanks:	2
A	1. Friction is caused by -----on the surfaces in contact. 2. Friction due to fluids is called-----. 3. Friction always opposes -----. 4. The smoother the surface is, the-----will be the friction.	
B.	Match the columns:	2
	'A' 1. Spring balance 2. Racing cars 3. Graphite 4. Soles of athlete shoes 'B' a. slicks b. spikes c. magnitude of the force d. lubricant	
C.	True or false:	2
	1. Sliding friction is always more than rolling friction. 2. Moving parts of machines become hot due to friction.	
D.	Answer in one or two words only:	4
	1. Does friction always oppose motion? 2. on what principle do ball bearing work? 3. how does lubrication reduce friction? 4. What causes friction between two surfaces in contact?	
Q.2	Give reasons:	4
A	1. Frictional force results in wear and tear of the surfaces. 2. The sole of shoes is grooved.	
B.	Read the following passage and answer the questions below:	4
	Static friction acts on objects when they are resting on the surface. For example, if you are hiking in woods, there is static friction between your shoes and the trail each time you put down your feet. Without this static friction, your feet would slip out under you, making it difficult to walk. In fact, that's exactly what happens when you walk on ice. That's because ice is very slippery and offers very little friction.	
	Questions:	
	1. What is static friction? 2. Why we are unable to walk on slippery surfaces? 3. What is the advantage of friction on the road? 4. Give one example of static friction.	
C.	How can we minimize friction?	2
D.	Write two disadvantages of friction.	2
Q.3	Answer the following:	6
A	1. Why friction cannot be completely eliminated? 2. What is sliding friction? Give one example. 3. What is rolling friction? Give one example	

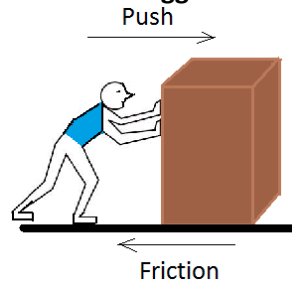
B. 1. Look at the picture and answer the questions:

2



Which person A or B experiences maximum friction.

2. Look at the picture and suggest an easy way to move the load by minimizing friction: 2



All The Best