Question

Assertion

A cloth covers a table. Some dishes are kept on it. The cloth can be pulled out without dislodging the dishes from the table.

Reason

For every action, there is an equal and opposite reaction.





Assertion is correct but Reason is incorrect



Assertion is incorrect but Reason is correct

Solution

Correct option is B)

If the cloth is pulled out very fast, then the time interval of application of frictional force is very small. This small value of impulse is insufficient to cause a VISIBLY SIGNIFICANT change. Hence, assertion is correct.

Reason is the statement of Newton's third law of motion and it's correct.

But reason isn't the correct explanation.