

**Answer on question #58124, Physics / Molecular Physics | Thermodynamics**

**Question** 7 Which of these determines whether or not heat flows in a system?

- average speed of the constituent particles of the system
- pressure difference between parts of the system
- degree of hotness or coolness of the system
- temperature difference between parts of the system

8 Which of the following is NOT true about conduction as a means of heat transfer?

- transfer of heat occurs through successive collisions of the atoms or molecules
- the average kinetic energy of the atoms or molecules is greater in the hot object than in the cold object
- the transfer process requires a material medium for it to take place
- there is net translational motion of the atoms or molecules from their mean equilibrium positions

**Solution** 7. Temperature difference between parts of the system determines whether or not heat flows in a system

8. there is net translational motion of the atoms or molecules from their mean equilibrium positions - this is NOT true about conduction as a means of heat transfer.