

- 9 Two gas cylinders have the same volume. One cylinder contains nitrogen gas. The other cylinder contains oxygen gas.

Both gases are at the same temperature and pressure.

Which of the following statements is **not** correct?

- ☐ A Each cylinder contains the same number of molecules.
- ☐ B The average molecular kinetic energy is the same for each gas.
- ☐ C The density of gas is the same in each cylinder.
- ☐ D The internal energy is the same for each gas.

(Total for Question 9 = 1 mark)