

- 10** A satellite is moved from one circular orbit around the Earth to another circular orbit with a larger orbital radius.

As a result of the change, which statement on the satellite is correct?

- A** Gravitational force on the satellite and its angular velocity will increase.
- B** Gravitational potential energy of the satellite and its angular velocity will increase.
- C** Gravitational potential energy of the satellite will increase but its total energy will remain constant.
- D** Angular velocity and linear orbital speed of the satellite will decrease.

- 11** Two containers X and Y containing an ideal gas are maintained at the same