

11 Which of the following statement about a geostationary satellite is true?

A It can remain vertically above any chosen fixed point on the Earth.

B Its linear speed is equal to the speed of a point on the Earth's equator.

C It has the same angular velocity as the Earth's rotation on its own axis.

D It is always travelling from east to west.

12 A satellite is in a circular orbit around the Earth. The satellite is at point X at time t_1 and at point Y at time t_2 . The satellite is at point Z at time t_3 and at point W at time t_4 .