

12. Which of the statements below BEST describes the motion of a geostationary satellite?

- (A) It moves with the same velocity as the earth.
- (B) Its geographical location changes as the earth rotates.
- (C) Its acceleration is zero.
- (D) Its angular velocity is equal to that of the earth.

13. If  $m$  is the mass of an object and  $E$  its kinetic energy, then its linear momentum is

- (A)  $m\sqrt{E}$
- (B)  $2\sqrt{mE}$
- (C)  $\sqrt{mE}$
- (D)  $\sqrt{2mE}$

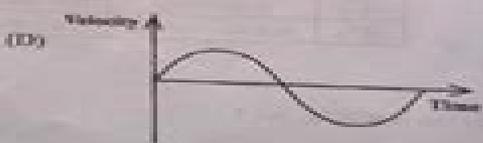
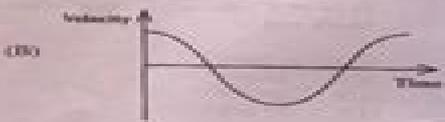
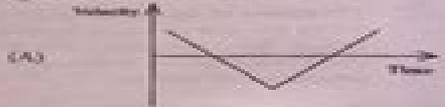
14. A van has mass  $m$ . The van's engine has a maximum power output of  $P$ . The LEAST time required for the van to be accelerated from rest to a speed,  $v$ , is

- (A)  $\frac{mv^2}{2P}$
- (B)  $\frac{mv}{P}$
- (C)  $\frac{mv^2}{v}$
- (D)  $\frac{2P}{mv^2}$

15. A student of weight 500 N is planning a trip to the peak of Table Mountain. From the starting point, the trail involves an increase in altitude of 1800 m. She buys "high calorie" energy bars which release 1000 kJ of energy when digested. Assuming her body to be 10% efficient, how many bars will she need to eat for the necessary gain in altitude?

- (A) 1
- (B) 9
- (C) 90
- (D) 900

16. A pendulum is held at its highest point and then released. A suitable graph to show one cycle of this motion could be



# Paper 1 2013

**Arthur Cayley**



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