

GRAVITATION

1. a. Magnitude of satellite's acceleration at point C is larger than the magnitude of acceleration point A.
- b. Satellite's speed at point C is larger than its speed at A.
- c. Acceleration component a_r at point A will be negative and component a_t will be 0.
- d. Acceleration component a_r at point B will be 0 and a_t will be negative.
- e. Acceleration component a_r on point C will be 0 and a_t will be positive.
- f. If the satellite move in anti-clock-wise direction, the acceleration component will be different.

2. b) 12500N.

3. a) At poles of Earth.

4. a) 5 seconds.

5. c) 8T.