

10 Two sites are being considered for a rocket launch. Site A is at the equator while site B is nearer to the North Pole. Taking the Earth to be a uniform sphere, which of the following statements is true?

- A** The escape speed for both sites are the same as gravitational potential at both sites are the same.
- B** The escape speed for site A is higher as gravitational potential at site A is larger.
- C** The escape speed for site A is lower as gravitational potential at site A is lower.
- D** The escape speed is independent of the gravitational potential.