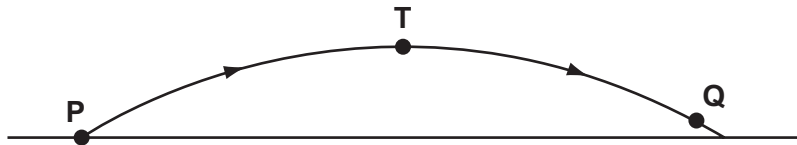


- 7 In the absence of air resistance, a stone is thrown from **P** and follows a parabolic path in which the highest point reached is **T**. The stone reaches point **Q** just before landing.



The vertical component of acceleration of the stone is

- A** zero at **T**.
- B** greatest at **T**.
- C** greatest at **Q**.
- D** the same at **Q** as at **T**.

- 8 When a car driver sees a hazard ahead, she applies the brakes as soon as she can and brings