

# GATE AE - 2016

EE24BTECH11061 - Rohith Sai

SINGLE CORRECT 1 MARK EACH

- 1) With increase in airfoil thickness, the critical Mach number for an airfoil is likely to
  - a) decrease.
  - b) increase.
  - c) remain unchanged.
  - d) be undefined.
- 2) Due to a body in potential flow, the velocity at a point A in the flow field is 20 m/s while the free stream velocity is only 10 m/s. The value of coefficient of pressure ( $C_p$ ) at the point A is \_\_\_\_\_ .
- 3) Which of the following airfoil will have location of the maximum camber at half chord length from the leading edge?
  - a) NACA 5212
  - b) NACA 1225
  - c) NACA 2215
  - d) NACA 2512