

- 1 . (b) (i) Diameter = 5.85 m (ii) Output power = 2.96 kW, angular speed = 24.6 rads^{-1} , input torque = 120 Nm, phase current = 12.5 A, line-line output voltage = 137 V (c) DC link voltage = 182.3 V, DC link current = 16.2 A
2. (c) Maximum power = 350 MW (d) Voltage at wind farm = 14.4 kV at an angle of 39.9° .
4. (c) (ii) Power winding output = 4.5 MW, control winding output = 1.5 MW (iii) Frequency = 16.7 Hz (iv) Voltage rating around 600 V.