

10 A closely coiled helical spring of round steel wire 12 mm in diameter having 8 complete turns with a mean diameter of 10 cm is subjected to an axial load of 300 N. Determine : (i) Deflection of the beam spring (ii) Maximum shear stress in the wire and (iii) Stiffness of the spring. Take C=  $8x10^4$  N/mm<sup>2</sup>. Q.P. Code: 16CE103

