

- N.B. :
- (1) Question No. 1 is compulsory.
 - (2) Answer any three questions from remaining.
 - (3) Each full question carries 20 marks.
 - (4) Assume suitable data, if needed & state it clearly.
 - (5) Take $g = 9.81 \text{ m/s}^2$

Q. 1) a) The guy cables AB & AC are attached to the top of the transmission tower as shown in figure 1. The tension in cable AC is 8 kN. Determine the required tension T in cable AB such that the net effect of the two cable tensions is a downward force at point A. Determine the magnitude R of this downward force.

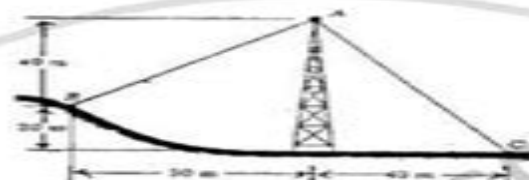


Fig. 1

b) Determine the tensions in cords AB & BC for equilibrium of 30 kg block (Fig. 2).



Fig. 2

c) A paint box weighing 9 kg is kept on a wooden block weighing 1.2 kg (Fig. 3). Determine the magnitude & direction of the friction force exerted by the roof surface on wooden block & normal force exerted by the roof on the wooden block.

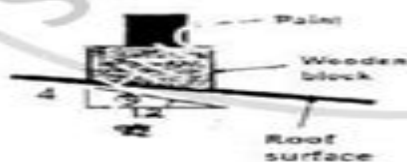


Fig. 3

d) Two cars start towards each other from stop X & stop Y at 1:36 PM, the first car reaches stop Y, travelling 8 km path, at 1:44 PM. Second car reaches stop X at 1:46 PM. If they move at uniform velocity, determine their time of meeting & their distance from stop X.

e) The 550 N box (Fig. 4) rests on a horizontal plane for which the coefficient of kinetic friction $\mu_k = 0.32$. If the box is subjected to a 400 N towing force as shown, find the velocity of the box in 4 seconds starting from the rest.



Fig. 4

[TURN OVER

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