

- 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.

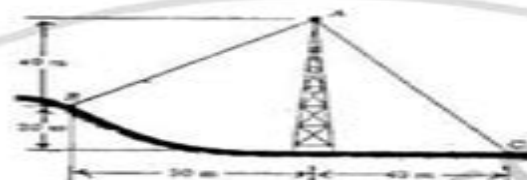


Fig. 1

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.

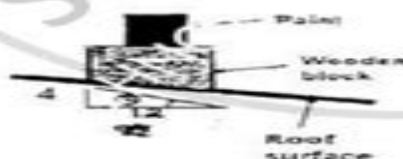


Fig. 3

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

# Engineering Mechanics Question Paper 1st Semester

**Patrizia Bocchetta**



## **Engineering Mechanics Question Paper 1st Semester:**

Engineering Mechanics Anup Goel, H. J. Sawant, 2021-01-01 Engineering mechanics is the branch of the physical science which describes the response of bodies or systems of bodies to external behaviour of a body in either a beginning state of rest or of motion subjected to the action of forces It bridges the gap between physical theory and its application to technology It is used in many fields of engineering especially mechanical engineering and civil engineering Much of engineering mechanics is based on Sir Issac Newton's laws of motion Within the practical sciences engineering mechanics is useful in formulating new ideas and theories discovering and interpreting phenomena and developing experimental and computational tools Engineering mechanics is the application of applied mechanics to solve problems involving common engineering elements The goal of this engineering mechanics course is to expose students to problems in mechanics as applied to plausibly real world scenarios Problems of particular types are explored in detail in the hopes that students will gain an inductive understanding of the underlying principles at work students should then be able to recognize problems of this sort in real world situations and respond accordingly Our hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge

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