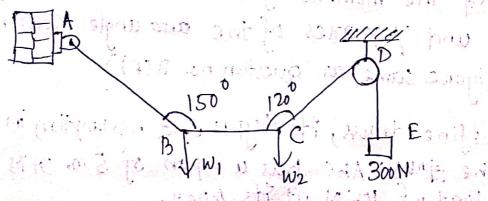
EM Assignment-2 Section-A2C [

Short question

- (1) (a) Define Kinetics & Kinematics
 - (b) Define Composition & resolution of fonces.
 - (c) Define Parallelogram law of forces.
 - (d) what is Moment and its types:
 - (e) State Lami's theorm.
 - (f) Difference between like and unlike parallel forces.
 - (9) The coef of an equilateral triangle with each side (a) is _____ from any of three sides.
 - (b) State Parallel Axis Theorm.

6-mark question

- (2) (a) Two forces act at an angle of 120°. The bigger fonce is of 40N and the resultant is perpendicular to the Smaller One. Find the Smaller fonce.
- (b) A light string ABCDE whose extremity A for fixed, has weights W, & W2 attached to ft at Band C. It passes round a small smooth peg at D laringing a weight of 300N at the free end E as shown in fig.



in the their sail

If in the equilibrium position, Be & horizontaland AB and CD make 150° and 120° with BC. Find

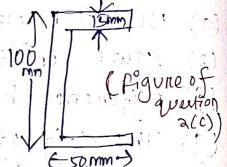
i) Tension in the portion AB, BC & CD of the straing ii) Magnitudes. of W12W2.

(c) Find the Cytofia channel Section loomm x somm x 15 mm.

Section about base, Apex

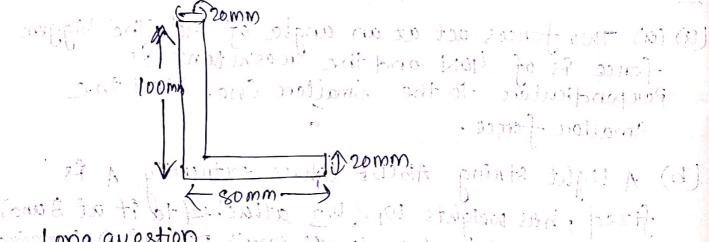
and con of the Section.

(e) state



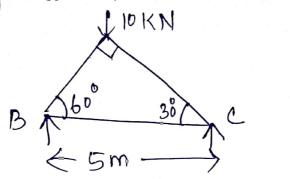
(e) state and prove the perpendicular Anis theory.

(f) Find the Centroid of an unequal angle Section 100mm x 80mm x 20mm.



tong question, almost thomas in builds is some in (3) Find the moment of Inertia about Centroidal x-x and y-y-anes of the and angle section. (figure same ous question no. 2(f))

(4) Define trus, ets types and Assumption in frame. The fruit ABC has a span of 5 m. 9+19 Carrying a load of lok N at 8ts Apex. find the forces in the members AB, AC & BC.



(5) Find the M.I of a hollow Section about an quis passing through the C. 9 or parallel X-X axis.

