

[6001]-4007
F.E. (Common)
ENGINEERING MECHANICS
(2019 Pattern) (Semester - I/II) (Credit System) (101011)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6, Q.No.7 or Q.No.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary and clearly state.
- 5) Use of cell phone is prohibited in the examination hall.
- 6) Use of electronic pocket calculator is allowed.

Q1) a) Determine the force 'P' need to pull over the 50 kg smooth roller over the step of 50 mm as shown in Fig. 1 a. Calculate the contact reactions at B if radius of roller is 300 mm. Take $\theta = 30^\circ$. [6]

b) The square plate has mass of 1800kg with mass center at 'G'. Calculate the tension in each of the three cables with which the plate is lifted while remaining horizontal as shown in Fig. 1 b. [8]

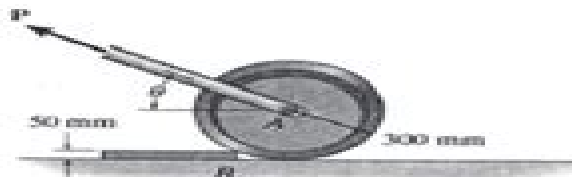


Fig. 1 a

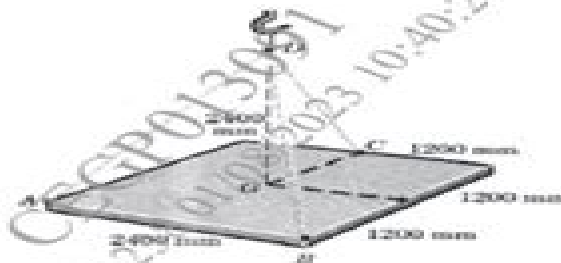


Fig. 1 b

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Lei Huang



Engineering Mechanics Paper Pattern For First Year:

Enjoying the Tune of Appearance: An Psychological Symphony within **Engineering Mechanics Paper Pattern For First Year**

In some sort of taken by displays and the ceaseless chatter of fast transmission, the melodic beauty and psychological symphony created by the written term frequently diminish in to the background, eclipsed by the relentless noise and distractions that permeate our lives. But, located within the pages of **Engineering Mechanics Paper Pattern For First Year** a charming fictional value brimming with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that interesting masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths of the moving assessment, we shall examine the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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