# ode: 15A03302

me: 3 hours

6403

Tech II Year I Semester (R15) Regular & Supplementary Examinations November/December 2 ENGINEERING MECHANICS

(Mechanical Engineering)

PART - A (Compulsory Question)

Witness .

Max. Marks

Answer the following: (10 X 02 = 20 Marks)

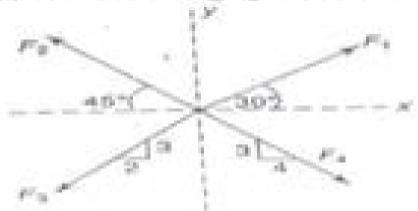
- Write a brief note on degrees of freedom.
- (b) State Lamck theorem.
- (c) Write short notes on cone of friction and centrifugal tension in flat belt drive.
- (d) State the laws of Coulomb friction.
- (e) Define the term centroid.
- (f) What is parallel axis theorem related to moments of area? Illustrate with a neal sketch.
- (g) State the assumptions necessary for the analysis of a plane projectile motion.
- (h) Define constrained motion.
- (i) Define time period and cyclic frequency of a vibrating system.
- (i) What is center of percussion?

#### PART = B

(Answer all five units, 5 X 10 v 50 Marks)

# UNIT - I

Using the method of projections, find the magnitude and direction of the resultant R of the concurrent forces as shown in figure below and basing magnitude  $F_1 = 1500$  N,  $F_2 = 21$   $F_3 \approx 3500$  N and  $F_4 = 1000$  N.



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G.S. Dulikravich, Mana Tanaka

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