

code: 15A03302

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

time: 3 hours

Max. Marks:

**PART – A**  
 (Compulsory Question)

\*\*\*\*\*

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

- Write a brief note on degrees of freedom.
- State Lamé's theorem.
- Write short notes on cone of friction and centrifugal tension in flat belt drive.
- State the laws of Coulomb friction.
- Define the term centroid.
- What is parallel axis theorem related to moments of area? Illustrate with a neat sketch.
- State the assumptions necessary for the analysis of a plane projectile motion.
- Define constrained motion.
- Define time period and cyclic frequency of a vibrating system.
- What is center of percussion?

**PART – B**  
 (Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

Using the method of projections, find the magnitude and direction of the resultant R of 11 concurrent forces as shown in figure below and having magnitude  $F_1 = 1500$  N,  $F_2 = 21$   $F_3 = 3500$  N and  $F_4 = 1000$  N.



# Engineering Mechanics Question Previous Paper

**Christian Drosten**



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