

code: 15A03302

Tech II Year I Semester (R15) Regular & Supplementary Examinations November/December 2015  
**ENGINEERING MECHANICS**  
 (Mechanical Engineering)

time: 3 hours

Max. Marks: 70

**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,  $F_2 = 2100$  N,  $F_3 = 3500$  N and  $F_4 = 1000$  N.



# Engineering Mechanics Question Previous Paper

**A Loxley**



## **Engineering Mechanics Question Previous Paper:**

## Embracing the Song of Appearance: An Psychological Symphony within **Engineering Mechanics Question Previous Paper**

In a world used by screens and the ceaseless chatter of instantaneous communication, the melodic beauty and psychological symphony developed by the written word usually diminish into the background, eclipsed by the persistent sound and distractions that permeate our lives. However, situated within the pages of **Engineering Mechanics Question Previous Paper** a charming fictional treasure overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that interesting masterpiece conducts visitors on a mental trip, well unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of this poignant examination, we shall discover the book's main harmonies, analyze their enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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