

**BM-233**  
**(Semester-III)**

**Statics**

External Marks: 40/27

Internal Marks: 10/6

Time: 3 Hours

**Note: Paper setter will set nine questions in all, selecting two questions from each section and one Compulsory question consisting of five parts distributed over all four sections. Candidates are required To attempt five questions, selecting at least one question from each section and the compulsory Question.**

**Section-I**

Composition and resolution of forces. Parallel forces. Moments and Couples.

**Section-II**

Analytical conditions of equilibrium of coplanar forces. Friction. Centre of Gravity.

**Section-III**

Virtual work. Forces in three dimensions. Poinso's central axis.

**Section-IV**

Wrenches. Null lines and planes. Stable and unstable equilibrium.

**REFERENCES**

- S.L. Loney : Statics, Macmillan Company, London
- R.S. Verma : A Text Book on Statics, Pothishala Pvt. Ltd., Allahabad