



B.A. / B.Sc. 2nd Year

THIRD SEMESTER

STATICS: (BM - 233)

Maharishi Dayanand University, Rohtak

Time Allowed: 3 Ho

Note. The question paper will consist of **five** sections. Each of the first four section will contain two questions and the students shall be asked to attempt on question from each section. Section - V will contain six short answer typ questions without any internal choice covering the entire syllabus and shall be compulsory.

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. Poinsots central axis.

Section - IV

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



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STATICS: (BM - 233)

Kurukshetra University, Kurukshetra

Time Allowed: 3 Hours

Note. The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five or six parts distributed over all the four sections. Candidates are required to attempt five questions in all, 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. Poinsots central axis.

Section - IV

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



Preliminaries		
(1.) Forces Acting at a Point	****	(i)
(2) Parallel Forces	***	1.1
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3. Moments	· · ·	3.1
4. Couples	skiesup	4.1
5. Analytical Conditions of Equilibrium of Coplanar Force	es	
6. Friction		5.1
Centre of Gravity	****	6.1
(8) Virtual Work	Alsterlander ber	7.1
		8.1
9. Forces in Three Dimensions		9.1
10. Wrenches	a to en in	10.1
11. Null Lines and Null Planes		
32 Stable, Unstable and Neutral Equilibrium		11.1
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Question Papers		(i)

Chapter