(3)

(2)

(2)

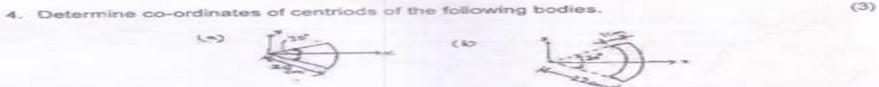
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## FACULTY OF ENGINEERING & TECHNOLOGY

## B.E. (Bridge Course) II - Semester (Main) Examination, June 2013

#### Subject: Engineering Mechanics

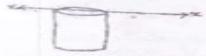
Tir	ne: 3 Hours	
	Note: Answer all questions of Part A. Answer any Five questions from Part E PART - A (25 Marks)	3.
	What is the ratio of F <sub>1</sub> : F <sub>2</sub> : R, if the resultant of two forces F <sub>1</sub> and F <sub>2</sub> acting at a point is R. Assume that, if F <sub>2</sub> is doubled, R is also doubled. Define (a) free body diagram and (b) Principle of transmissibility of forces. What will happen if a block of 950 N weight is kept to be in equilibrium with force 1400 N when co-efficient of friction between the interface is 0.3.	(2) (2) (3)
	1400N	



The shaded section shown in Fig. has an area of 5 cm<sup>2</sup> and a moment of inertia of 30 cm<sup>4</sup>, about axis X<sub>1</sub>. Find moment of inertia about axis-X<sub>2</sub>.



 Determine the mass moment of inertia of a rod (in x-x) placed in standing position, is given below. Its diameter = 600 mm, height = 1900 mm, mass = 3 Kg.



- A bullet leaves the muzzle of a gun with velocity, V=740 m/s. Assuming
  constant acceleration from breech to muzzle, find the time "t' occupied by the
  bullet in traveling through the gun barrel, which is 740 mm long.
- 8. If a uniform cytinder of mass 'm' and radius 'r' rolls down an incline from a height 'h' without slipping, the maximum attainable velocity 'v' of its mass centre will be the \_\_\_\_\_\_.
  (a) v √gh (b) v = √(2/3)gh (c) v = √(4/3)gh (d) √2gh
- Two balls are projected from the same point in the direction inclined at 60° and 30° to the horizontal. Determine the ratio of velocity of projections if they have same horizontal range.
- 10. A vehicle enters a curve of 300 m radius at a speed of 16 m/s. If the vehicle increases its speed at a rate of 3 m/s², what will be its total acceleration when it has travelled 300 m along the curve.

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