

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

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

Subject: Engineering Mechanics

Max. Marks: 75

Time: 3 Hours

Note: Answer all questions of Part A. Answer any Five questions from Part B.

## PART – A (25 Marks)

1. What is the ratio of  $F_1 : F_2 : R$ , if the resultant of two forces  $F_1$  and  $F_2$  acting at a point is  $R$ . Assume that, if  $F_2$  is doubled,  $R$  is also doubled. (2)
2. Define (a) free body diagram and (b) Principle of transmissibility of forces. (2)
3. 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. (3)



4. Determine co-ordinates of centroids of the following bodies. (3)



5. The shaded section shown in Fig. has an area of  $5 \text{ cm}^2$  and a moment of inertia of  $30 \text{ cm}^4$ , about axis  $X_1$ . Find moment of inertia about axis  $X_2$ . (2)



6. 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. (3)



7. A bullet leaves the muzzle of a gun with velocity,  $V=740 \text{ m/s}$ . 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. (3)

8. If a uniform cylinder 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 \_\_\_\_\_. (2)

(a)  $v = \sqrt{gh}$  (b)  $v = \sqrt{\frac{2}{3}gh}$  (c)  $v = \sqrt{\frac{4}{3}gh}$  (d)  $v = \sqrt{2gh}$

9. Two balls are projected from the same point in the direction inclined at  $60^\circ$  and  $30^\circ$  to the horizontal. Determine the ratio of velocity of projections if they have same horizontal range. (3)

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  $3 \text{ m/s}^2$ , what will be its total acceleration when it has travelled 300 m along the curve. (2)

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