

MODEL QUESTION PAPER

EN010 104 – ENGINEERING MECHANICS

Duration: 2 Hrs

Marks: 100

Part A

(Answer all questions in two or three sentences)
(Each question carries 3marks)

1. What are the conditions of equilibrium of rigid bodies? (5x3=15marks)
2. Explain the principle of virtual work
3. Define static indeterminacy
4. Define instantaneous centre of zero velocity
5. State D'Alembert's principle

Part B

(Answer all questions)
(Each question carries 5 marks)

6. State and prove Varignon's theorem (5x5=25marks)
7. Derive the expression for the centroid of right angled triangle.
8. State laws of dry friction
9. Derive the expression for natural frequency of undamped free vibration.
10. A car of weight 20kN moving at a speed of 0.5m/s to the right collides with a car of weight 35kN which is at rest. If after the collision the second car is observed to move to the right at a speed of 0.3m/s. Determine the coefficient of restitution between the two cars.

Part C

(Each question carries 12 marks) (5x12=60marks)

11. A rigid bar AB is acted by forces as shown in Fig 1. Reduce the system into (i) a single force, (ii) Force moment system at A (iii) Force moment system at D

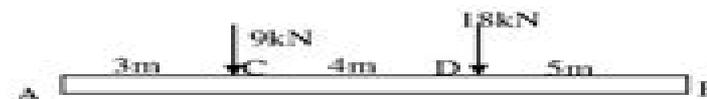


Fig 1

OR

Engineering Mechanics Question Paper

M Lipman



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