

- ii) Scleronomic and Rheonomic constants (2mks)
- f) Three particles of mass 2kg, 5kg and 10kg are located at the points (-1,0,1), (2,-1,3) and (-2,2,1) respectively. Calculate the moment of inertia of the system about the x-axis. (4mks)
- g) Find the generalized coordinate for the following systems
- A flywheel (1mk)
  - Beads in abacus (1mk)
- h) What is virtual work? (2mk)
- i) A part of a mechanical linkage has a mass 3.6 kg, we measure its moment of inertia about an axis 0.15 m from its center of mass to be  $I_p = 0.132 \text{ kgm}^2$ . what is the moment of inertia  $I_{cm}$  about a parallel axis through the center of mass (4mks)

## QUESTION TWO (20 MARKS)

- a) A particle of mass  $m$  kg, moves in a force field of potential  $V = -\frac{k \cos \theta}{r^2}$ , where  $k$  is a constant. Use the variational method to determine the equations of motion. (10mks)
- b) A body of mass  $M$  rests on a horizontal table at an angle of  $45^\circ$  to the horizontal. It is pulled up the plane by means of a light flexible rope passing parallel to the plane and carrying over a light frictionless pulley at the top of the plane an object of mass  $m$  kg. The particle of the rope between the pulley and the body is vertical and carries a load of mass  $\frac{M}{2}$  kg. Using D'Alembert's principle, find an expression for the acceleration of the body. (10mks)



# Metro Mechanic C Sample Questions

**Reşat Ulusay**



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[Applied Mechanics Reviews](#), 1971

**Rock Mechanics and Rock Engineering: From the Past to the Future** Reşat Ulusay, 2016-11-18 Rock Mechanics and Rock Engineering From the Past to the Future contains the contributions presented at EUROCK2016 the 2016 International Symposium of the International Society for Rock Mechanics ISRM 2016 Cappadocia Region Turkey 29-31 August 2016 The contributions cover almost all aspects of rock mechanics and rock engineering from theories to engineering practices emphasizing the future direction of rock engineering technologies The 204 accepted papers and eight keynote papers are grouped into several main sections Fundamental rock mechanics Rock properties and experimental rock mechanics Analytical and numerical methods in rock engineering Stability of slopes in civil and mining engineering Design methodologies and analysis Rock dynamics rock mechanics and rock engineering at historical sites and monuments Underground excavations in civil and mining engineering Coupled processes in rock mass for underground storage and waste disposal Rock mass characterization Petroleum geomechanics Carbon dioxide sequestration Instrumentation monitoring in rock engineering and back analysis Risk management and the 2016 Rocha Medal Lecture and the 2016 Franklin Lecture Rock Mechanics and Rock Engineering From the Past to the Future will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2016 organized by the Turkish National Society for Rock Mechanics is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK

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