



Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1. (a) Mention the SI unit and dimension of the physical quantities – pressure, momentum. 2
- (b) State Kepler's laws of planetary motion. 5
- (c) Show the relation between g and G . A body of mass m placed on the surface of earth is taken to a height h above the surface of earth. Show the variation of g with altitude. 2 + 5
2. (a) Under what condition the range of a projectile is maximum ? 2

(Turn Over)