Part 1: 30 Multiple Choice - 1 Mark Each

•	Questions range	from qu	uick calc	ulations t	o concept	questions.
---	-----------------	---------	-----------	------------	-----------	------------

Should take about 45 minutes

Part	2:	12	Work	Problems ·	- 5	Marks	Fach	- B	wols	is	the	main	concer	ot of	each	auestion
			11 01 11	1 1 00101113	_	14101 113	Lucii			13	1110	11100111	COLICE	,, ,,	eucii	question

- 1. Application of Vectors
- 2. Application of Vectors
- 3. Acceleration of Multiple Masses
- 4. Acceleration of Multiple Masses
- 5. Forces and Torque
- 6. Forces and Torque
- 7. Projectile Motion
- 8. Projectile Motion
- 9. Universal Gravitation in 2D
- 10. Universal Gravitation
- 11. Universal Gravitation
- 12. Conservation of Momentum in 2D

Vectors

- o Resultant using perpendicular components
- Applications of Vectors

Forces

- o Equilibrant
- o Forces applied at an angle
- o Ramp questions
- Hanging signs
- Multiple masses

> Torque

- Net torque
- o Force supplied by columns
- Tension in wire questions

Projectiles

- Horizontal launch
- Vertical launch
- o Max height, range, time in air
- o Finding initial velocity, angle of launch

Required Materials

- Pencils, erasers
- Scientific calculator
- Formula Sheet

Given Materials

- Question booklet
- Answer booklet