

IOAA

Theoretical Problems

Marking Scheme

Question 1

General marking guidelines

1. Giving correct answers without detailed calculations	Deduct 1 point
2. Minor mistakes in the calculations e.g. wrong signs, symbols, substitutions	Deduct 0.3 point
3. Missing units in the final answers	Deduct 0.2 point
4. The final answer containing too few or too many significant figures.	Deduct 0.1 point
5. Using wrong physical concepts (despite correct answers)	No points awarded

Question 2 – 4

General marking guidelines

1. Giving correct answers without detailed calculations	Deduct 50% of the total marks for that part
2. Minor mistakes in the calculations e.g. wrong signs, symbols, substitutions	Deduct 30%
3. Missing units in the final answers	Deduct 10%
4. The final answer containing too few or too many significant figures.	Deduct 5%
5. Using wrong physical concepts (despite correct answers)	No points awarded
6. Error propagated from earlier parts: minor errors	Full marks
7. Error propagated from earlier parts: major errors	Deduct up to 20% of only the marks for the final answer