



This memorandum consists of 9 pages.

Important information:

- This is a marking guideline. In instances where learners have used different but mathematically sound strategies to solve the problems they (learners) should be credited.
- Unless stated otherwise, learners who give a correct answer only, should be awarded full marks.
- Underline errors committed by learners and apply Consistent Accuracy (CA) marking.
- Do not penalise learners if units of measurement are omitted.

KEY	
M	Method mark
CA	Consistent Accuracy mark
A	Accuracy mark

QUESTION 1

1.	1.1	D	1.2	C	1.3	B	1.4	A	1.5	D	Give 1 mark for each correct answer.	[10]
	1.6	C	1.7	C	1.8	D	1.9	B	1.10	D		

QUESTION 2

2.1	2.07×10^{-7} ✓A			Answer: 1 mark	(1)
2.2.1	$\sqrt[3]{73 - (-3)^2} = \sqrt[3]{73 - 9}$ $= \sqrt[3]{64}$ ✓M $= 4$ ✓CA			Calculation: 1 mark Answer: 1 mark (Answer only: 1 mark) (If the answer is a decimal number, no mark.)	(2)
2.2.2	$\sqrt{100} < \sqrt{110} < \sqrt{121}$ ✓M $10 < \sqrt{110} < 11$ ✓A			$\sqrt{100}$ and $\sqrt{121}$: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
2.2.3	$\frac{3 \times 5^3}{5^2} = 3 \times 5^1$ ✓M $= 75$ ✓CA			Applying exponential law: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
2.3	$1.03 \times 10^{-2} + 3.8 \times 10^{-3}$ $= 0.0103 + 0.0038$ ✓M $= 0.0141$ ✓CA			Simplification: 1 mark Answer: 1 mark (Answer only: 1 mark)	(2)
	or			or	
	$= 10^{-2}(1.03 + 0.38)$ ✓M $= 10^{-2}(1.41)$ $= 0.0141$ ✓CA	or	$= 10^{-2}(1.03 + 0.38)$ ✓M $= 10^{-2}(1.41)$ $= 0.0141$ ✓CA	Taking out common factor: 1 mark Answer: 1 mark (Answer only: 1 mark)	
					[9]

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