

	FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY		MARKS
			/10
DISCRETE MATHEMATICS AND APPLICATIONS	CODE: BUM 1233	TOPIC: PROOF TECHNIQUES	
ASSESSMENT: QUIZ 4	SET A	DURATION: 10 MINUTES	
NAME:	MATRIC NO:	SECTION: 4	

Instructions: Please answer any of the **TWO** questions **ONLY** using any valid proof techniques, and show your proofs clearly.

1. The sum of an odd number and two even numbers is an odd number.
2. If $a \mid b$ and $a \mid c$, then $a \mid (b + c)$.
3. If n^3 is an even number, then n is also an even number.
4. An even perfect square is an even integer.
5. If n is odd, then $n \equiv 1 \pmod{2}$.

Answer: