Question Number	Answer	Notes	Marks
4	(a) $2\times 4=8$ (b) $S_2=2a+d=4\times 5$ $d=4$ (c) 25th term $=a+24d=8+24\times 4=104$	B1 M1A1 A1 M1A1	**(6)**

Notes

(a)
B1 for 8 seen

(b)
Alt 1
M1 for $S_2=2a+d$ or $S_2=2\times 8+d$ or $2\times 8+d=2\times 2(2+3)$ oe seen with their a.
This must be an attempt at a **complete method** to find d.
A1 for a fully correct method to find d.
A1 $d=4$

Alt 2
By comparing coefficients
$\{\frac{n}{2}(2a+(n-1)d)=2n(n+3)\Rightarrow 2a+dn-d=4n+12\Rightarrow 16-d+dn=12+4n\Rightarrow d=4\}$

M1 for setting $\frac{n}{2}(2a+(n-1)d)=2n(n+3)$

A1 for a correct expressions as far as substituting the correct value for a to give:
$16-d+dn=12+4n$
A1 $d=4$

(c)

M1 attempts to use a correct $U_n=a+(n-1)d$ with $n=25$ only. Ft their d provided it is a numerical value. Or any other correct method eg., $S_{25}-S_{24}$ etc.
A1 $U_{25}=104$