

Question Number	Answer	Additional guidance	Mark
<b>1(a)(i)</b>	1. reference to {death / killing / destroying / eq} (of bacteria cells) ;	<b>1. Ignor</b> reference to stopping growth	<b>(2)</b>
	2. idea that {bacteria / cells} burst ;	<b>2. Acce</b> lysis, loss of osmotic control	

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<b>1(a)(ii)</b>	1. reference to cells cannot {reproduce / increase in number / produce new cells / multiply / replicate / eq} ;	<b>2. Accep</b> no binary fission	<b>(2)</b>
	2. idea of no (cell) division ;		

Question Number	Answer	Additional guidance	Mark
<b>1(b)(i)</b>	1. (A and C resistant as) no {clear zone / zone of inhibition / eq} around A and C ;	<b>1. Accep</b> a clear description of this area around the disc  <b>2. Accept</b> converse  <b>3. Accep</b> converse	<b>(3)</b>
	2. idea that {clear zone / eq} indicates where antibiotic {inhibits growth / kills bacteria / eq} ;		
	3. {clear zone / eq} around B {smaller/ eq} than clear zone around D ;		
	4. idea of {size / diameter / width /eq} of clear zone indicates {effectiveness / eq} ;		
	[check diagram for appropriate labels]		

Question Number	Answer	Mark
<b>1(b)(ii)</b>	C reliability ;	<b>(1)</b>

Question Number	Answer	Mark
<b>1(b)(iii)</b>	D validity;	<b>(1)</b>

Question Number	Answer	Additional guidance	Mark
1(c)	<ol style="list-style-type: none"> <li>1. reference to hospitals {having / changing / eq } a {code of practice / protocol / policy / standards / eq} (for dealing with hospital acquired infections) ;</li> <li>2. idea of clothing rules for hospital workers ;</li> <li>3. reference to <u>improved</u> laundry of bed linen e.g. {<u>increased</u> frequency / higher washing temperature / eq} ;</li> <li>4. reference to use of special {pillow cases / treatment of pillow cases} e.g. microfilters, treated with antibacterials, sterilisation, disposable pillow cases ;</li> <li>5. reference to use of special procedures when carrying {pillow cases / bed linen} to laundry e.g. sealed plastic bags ;</li> <li>6. screening of patients / isolation of infected patients / eq ;</li> <li>7. idea of hand washing regimes / eq ;</li> </ol>	<p><b>1. Allow</b> references to pillows for pillow cases throughout</p> <p><b>3. Allow</b> pillow cases should be washed daily</p> <p><b>7. Allow</b> hands should always be washed</p>	(3)