

**A2 6: Microbiology**

Centre No:			Candidate No:				
	Content Reference	Learning Outcome	Assessment Objective	Marks Band 1	Marks Band 2	Marks Band 3	Marks Band 4
These LO's require submission of a lab book with written reports on each practical defined in the assessment. The mark allocated within a particular mark band will be determined by the quality of the evidence presented following the requirements of LO 12.1.1 and LO 12.1.2	12.1	12.1.1					
		12.1.2					
Evidence recorded in portfolio	12.2			1-3	4-6	7-9	10-12
		12.2.1	AO1				
		12.2.2					
		12.2.3					
		12.2.4					
Evidence recorded in portfolio	12.3			1-3	4-6	7-9	10-12
		12.3.1	AO1				
		12.3.2					
		12.3.3					
		12.3.4	AO2	1-4	5-7	8-10	11-14
Evidence recorded in lab book/report	12.4			1-6	7-13	14-20	21-26
		12.4.1	AO3(i)				
Evidence recorded in lab book/report	12.5			1-3	4-6	7-9	10-12
		12.5.1	AO1				

Evidence recorded in lab book/report	12.6 Growth		<b>1-6</b>	<b>7-13</b>	<b>14-20</b>	<b>21-26</b>	
		12.6.1	AO3(i)				
		Broth preparation					
		Inoculation of liquid					
		Pour plate					
		Streak plate					
		Lawn Plate					
		Mycelial disc					
		Fungal spore inoculation					
		Viral Plaque count lysis on solid/liquid					
		Haemocytometer					
Evidence recorded in lab book/report	12.7 Measurement		<b>1-6</b>	<b>7-13</b>	<b>14-20</b>	<b>21-26</b>	
		12.7.1	AO3(i)				
		Serial Dilution					
		Viable count					
		Total count					
		Microbiological assay					
		Dry mass determination					
		Mycelial discs					
		Viral Plaque counts					
Determine turbidity using colorimeter							
Evidence recorded in portfolio	12.8		<b>1-3</b>	<b>4-6</b>	<b>7-9</b>	<b>10-12</b>	
		12.8.1	AO1				
			<b>1-4</b>	<b>5-7</b>	<b>8-10</b>	<b>11-14</b>	
Evidence recorded in lab book/report	12.8	12.8.2	AO2				
			<b>1-7</b>	<b>8-14</b>	<b>15-21</b>	<b>22-28</b>	
		12.8.3	AO3(ii)				
		Counting bacterial Colonies					
		Measuring myceleial disc as diameter/dry mass					
Evidence recorded in a report	12.9		<b>1-7</b>	<b>8-14</b>	<b>15-21</b>	<b>22-28</b>	
		12.9.1	AO3(ii)				
			<b>1-4</b>	<b>5-7</b>	<b>8-10</b>	<b>11-14</b>	
Evidence recorded in portfolio	12.10		<b>1-4</b>	<b>5-7</b>	<b>8-10</b>	<b>11-14</b>	
		12.10.1	AO2				

Assessment Objective	AO Total	Divide By	
A01		9	_____/12
A02		3	_____/14
A03(i)-Practical		18	_____/26
A03(ii)-Theory		5	_____/28
<b>Total</b>			_____/80

