

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		AO1	1-3	4-6	7-9	10-12
		12.2.1					
		12.2.2					
		12.2.3					
		12.2.4					
Evidence recorded in portfolio	12.3		AO1	1-3	4-6	7-9	10-12
		12.3.1					
		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		1-6	7-13	14-20	21-26	
		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		1-6	7-13	14-20	21-26	
		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		1-3	4-6	7-9	10-12	
		12.8.1	AO1				
			1-4	5-7	8-10	11-14	
		12.8.2	AO2				
			1-7	8-14	15-21	22-28	
		12.8.3	AO3 (ii)				
		Counting bacterial colonies					
		Measuring mycelial disc as diameter/dry mass					
		Colorimetry					
Haemocytometer							
Evidence recorded in a report	12.9		1-7	8-14	15-21	22-28	
Evidence recorded in portfolio	12.10	12.9.1	AO3 (ii)				
			1-4	5-7	8-10	11-14	
	12.10.1	AO2					

round up and record totals as whole numbers			
Assessment Objective	AO Total	Divide By	total
AO1		9	/12
AO2		3	/14
AO3 (i)-Practical		18	/26
AO3 (ii)-Theory		5	/28
Total			/80