



106<sup>th</sup> IAMM EQAS Microbiology: Bacteriology/ Serology  
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DECEMBER 2020

106<sup>th</sup> EQAS EVALUATION REPORT

MEMBER ID: M 0 0 5 8

Marks Obtained: 62.5/67(93%)

DECEMBER 2020 / BACTERIOLOGY SMEARS:

Question: Carry out the appropriate staining procedure and document the relevant observation.

Provide the Impression or probable organism seen (AS ASKED)

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

PLEASE NOTE: The inaccuracies in the participant report resulting in deduction of marks has been underlined in the expected report.

Exercise Number	Question	Expected Report	Evaluation		
SM1	Please carry out a Gram stain on the given fixed smear prepared from a CSF specimen of a 72-year-old gentleman presenting with high grade fever, headache and vomiting for one day.	Presence of host cells & debris (1mark): Few pus cells	0	0.5	1
		Description of Organism/s (2marks): <u>Many (0.5)</u> Gram positive (0.5) lanceolate shaped diplococci (1)	1.5	2	2.5
		Probable organism (1 mark): <i>Streptococcus pneumoniae</i>	3	3.5	4
SM2	Please carry out a Gram stain on the given fixed smear prepared from a THROAT specimen of a 6-year old child presenting with a sore throat and fever and malaise for 2 days.	Presence of host cells & debris (1mark): No pus cells	0	0.5	1
		Description of Organism/s (2 marks): <u>Many (0.5)</u> Gram positive (0.5) slender club bacilli arranged Chinese letter pattern (1) along with few Gram positive bacilli in palisade arrangement.	1.5	2	2.5
		Possible organism (1 mark): <i>Corynebacterium spp</i>	3	3.5	4

CU3- Isolated as the predominant organism from an EXUDATE specimen of a left lower limb ulcer from a 63-year-old diabetic woman.  
**FINAL IDENTIFICATION: *Proteus mirabilis***

Identification details	Reported	Not reported	Evaluation (7 marks)
Microscopy (Gram stain + Motility)	✓		0 0.5 1
Salient culture and biochemical findings enabling final identification (Minimum 3 key characteristics)	✓		1 2 3 4
Final identification	✓		0 0.5 1 1.5 2

Susceptibility report	EXPECTED REPORT		PARTICIPANT REPORT		MARK 10 marks	TYPE OF ERROR
	Zone size (mm)	MIC (µg/ml)	Interpretation	Correct		
Co-trimoxazole	≥16	≤2/38	Susceptible	✓		-1 0 1 2 mE/ ME/ VME
Levofloxacin	≥21	≤0.5	Susceptible	✓		-1 0 1 2 mE/ ME/ VME
Piperacillin-Tazobactam	≥21	≤16	Susceptible	✓		-1 0 1 2 mE/ ME/ VME
Ertapenem	≥22	≤0.5	Susceptible	✓		-1 0 1 2 mE/ ME/ VME
Meropenem	≥23	≤1.0	Susceptible	✓		-1 0 1 2 mE/ ME/ VME

**DECEMBER 2020 / SEROLOGY**

Please refer the attached evaluation format/answer template for details on the criteria for evaluation.

Parameter	Your Result	Your Value	Intended Result			Method	Robust Mean	Robust SD	Range (mg/L)	Z & Z <sup>2</sup> score	Max Marks	Your Score
			STO	STH	Interpretation							
SE1 RA	Negative	9.3 IU/mL	Negative	Negative	Negative	Turbidimetry (n-245)	8.5538	4.1086	0.0 to 31.260	0.2	2	2
SE2 WIDAL*	Correct	Correct	Negative	Negative	Negative	Slide agglutination	Not Applicable	Not Applicable	Not Applicable	Not Applicable	2	2
SE3 CRP	Positive	50.28 mg/L	Positive	Positive	Positive	Turbidimetry (n-330)	60.0593	10.4966	0.08 to 199.9	-0.9	2	2

RA: Rheumatoid Factor, CRP: C-reactive Protein, NA: Not Applicable. \*Expected value is determined by the Proficiency Testing Provider (PTP).