



# MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

## IAMM EQAS New Delhi

Department of Clinical Microbiology and Immunology  
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### Result ( Code No: DHL1055/NATIONAL CLINICAL LABORATORY

Batch Name	34th QC, November	Batch Marks	81
Start By Date	25-Nov-2023	Submit By Date	26-Dec-2023

#### Q1. Smear :

1.1 : A 31 year old lady, presented with complaints of dysuria & frequency of urination, 2 days duration. Smear prepared from urine sample is provided. Do gram stain & give your report. (Marks: 5 )

Expected Result (Cells):--Many PMN cells seen. (Marks :1)

Participant's Answer (Cells):--Moderate pus cells seen Few epithelial cells seen (Marks :1)

Expected Result (Organism):--Many GNB (>1/OIF) seen. (Marks :2)

Participant's Answer (Organism):--Gram negative bacilli seen (Marks :1)

Expected Result (Interpretation):--UTI caused by Gram negative bacilli. (Marks :2)

Participant's Answer (Interpretation):--Gram negative bacilli infection (Marks :2)

Marks Obtained :-- 4

1.2 : A 65 year old man presented with post operative peritonitis. Smear prepared from pus aspirated from abdomen is provided. Do Grams stain & give your impression. (Marks: 5 )

Expected Result (Cells):--Many PMN cells seen. (Marks :2)

Participant's Answer (Cells):--Many pus cells seen (Marks :2)

Expected Result (Organism):--Many gram positive cocci in pairs resembling Enterococcus species in morphology seen. (Marks :2)

Participant's Answer (Organism):--gram positive cocci seen in short chains & pairs (Marks :2)

Expected Result (Interpretation):--Peritonitis due to Enterococcus species. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of streptococcal infection (Marks :1)

Marks Obtained :-- 5

1.3 : A 65 year old male presented with productive cough of 15 days duration. He also gave a history of fever of 5 days duration one week back. Smear prepared from sputum sample is provided. Do Grams stain & give your report. (Marks: 5 )

Expected Result (Findings):--Smear-Q1.3 of the 34th QC, November 2023 has been withdrawn. This question will not be included in the evaluation scheme. (Marks :5)

Participant's Answer (Findings):--Smear-Q1.3 of the 34th QC, November 2023 has been withdrawn. This question will not be included in the evaluation scheme. (Not evaluated.)

Participant's Comments	This Question will not be evaluated.
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Examiner Comments	This Question will not be evaluated.
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Marks Obtained :-- ( Not evaluated.)

#### Q2. Culture/Sensitivity :

2.1 Three freeze dried (lyophilized) cultures of bacteria are provided. Identify and perform the antibiotic sensitivity testing. Use current CLSI guidelines wherever applicable for interpretation of antimicrobial sensitivity. EUCAST guideline can be used wherever CLSI guidelines are not available. A= Automated/M= Manual; select whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report both, even if done. Organism Isolated From PUS: (Marks: 15 )

	Genus	Species	Serotype (if applicable)
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Expected Result (Identification of given organism)	<i>Staphylococcus</i> (Marks: 3)	<i>aureus</i> (Marks: 2)	
Participant's Answer	<i>Staphylococcus</i> (Marks: 3)	<i>aureus</i> (Marks: 2)	

Antibiotics	Cefoxitin	Co-trimoxazole	Clindamycin	Tetracycline	Vancomycin
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	S (Marks: 0)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	23	19	21	21	17
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 13					

## 2.2 Organism Isolated From Urine: (Marks: 15 )

	Genus	Species	Serotype (if applicable)
Expected Result (Identification of given organism)	<i>Proteus</i> (Marks: 3)	<i>mirabilis</i> (Marks: 2)	
Participant's Answer	<i>Proteus</i> (Marks: 3)	<i>mirabilis</i> (Marks: 2)	

Antibiotics	Amikacin	Cefuroxime	Co-trimoxazole	Ertapenem	Piperacillin/Tazobactam
Expected Result	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	R (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	20	23	06	22	25
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

## 2.3 Organism Isolated From Blood : (Marks: 13 )

	Genus	Species	Serotype (if applicable)
Expected Result (Identification of given organism)	<i>Burkholderia</i> (Marks: 3)	<i>cepacia</i> (Marks: 2)	
Participant's Answer	<i>Burkholderia</i> (Marks: 3)	<i>cepacia</i> (Marks: 2)	

Antibiotics	Ceftazidime	Co-trimoxazole	Levofloxacin	Meropenem
Expected Result	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	R (Marks: 0)	R (Marks: 0)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	20	06	14	23
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)				
Marks Obtained: 9				

## Q.3.: Serology:

## 3.1 : Please carry out following serological tests on the given samples. (Marks: 8 )

Q.No.	3.1.1	3.1.2
Test	Anti HBe	RA factor
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Not Attempted (Not evaluated.)	Negative (Marks: 4)
Method	Not Attempted	Latex Agglutination

Name of Kit	Not Attempted	Pathozyme
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Marks Obtained :-- 4

3.2 : Perform the Blood Borne Viral (BBV) serology: HBsAg, HCV and HIV antibody on the given samples (Sample nos. 3.2.1, 3.2.2, 3.2.3 & 3.2.4) (Marks: 24)

Sample		HIV Antibody	HBsAg	HCV Antibody
3.2.1	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	OTHER	OTHER	HCV- TRI-DOT
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	OTHER	OTHER	HCV- TRI-DOT
3.2.3	Expected Result	Non-Reactive (Marks: 2)	Positive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive ( Marks: 2)	Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	OTHER	OTHER	HCV- TRI-DOT
3.2.4	Expected Result	Positive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive ( Marks: 0)	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)
	Method	Card test	Card test	Card test
	Name of kit	OTHER	OTHER	HCV- TRI-DOT

Marks Obtained :-- 22

Grand Total Marks : 81

Marks Obtained: 72

Note : This is computer generated report, does not require signature of the EQAS provider.

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