



# 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: DLH450 / ESIC Medical College & Hospital, Faridabad )

Batch Name	28th QC, November	Batch Marks	71
Start By Date	17-Nov-2021	Submit By Date	24-Dec-2021

#### Q.1. Smear :

1.1 : A 55 year old man who is a known case of alcoholic liver disease presented with fever & abdominal distension of 3 days duration. Smear prepared from ascitic fluid is provided to you. Perform Gram stain & report as below. (Marks: 5 )

Expected Result (Cells):--Moderate no. of PMN cells seen. (Marks :2)

Participant's Answer (Cells):--3-5 pus cells/oil immersion field. (Marks :2)

Expected Result (Organism):--Moderate no. of gram negative bacilli seen. (Marks :2)

Participant's Answer (Organism):--Short, stout, encapsulated gram-negative bacilli present. (Marks :2)

Expected Result (Interpretation):--Gram negative bacterial peritonitis. (Marks :1)

Participant's Answer (Interpretation):--Peritonitis caused by gram-negative bacilli probably due to Klebsiella pneumoniae. (Marks :1)

Marks Obtained :-- 5

1.2 : A 45 year old man, HIV positive presented with loose stool. Smear from Stool specimen is provided. Perform Kinyoun stain & report as below. (Marks: 5 )

Expected Result (Findings):--Few acid fast (1) oocysts seen (1). (Marks :2)

Participant's Answer (Findings):--Acid-fast oocysts 4-6 micrometer in size seen. (Marks :2)

Expected Result (Interpretation):--Suggestive of diarrhea due to Cryptosporidium. (Marks :3)

Participant's Answer (Interpretation):--Diarrhoea due to Cryptosporidium parvum. (Marks :3)

Marks Obtained :-- 5

1.3 : A 5 year old child presented with fever & shortness of breath, 5 days duration. Smear prepared from bronchoalveolar lavage is provided. Perform Gram stain & report as below. (Marks: 5 )

Examiner Comments	This question has been withdrawn from evaluation.
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Marks Obtained :-- ( Not evaluated.)

#### Q.2. 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; tick whichever applicable. Attempt only one: Either "A" or "M". Kindly do not report both, even if done. Organism Isolated From Stool: (Marks: 15 )

	Genus	Species
Expected Result (Identification of given organism)	<i>Vibrio</i> (Marks: 3)	<i>cholerae</i> (Marks: 2)
Participant's Answer	<i>Vibrio</i> (Marks: 3)	<i>cholerae</i> (Marks: 2)

Antibiotics	Cefotaxime	Ciprofloxacin	Tetracycline	Amikacin	Co-trimoxazole
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	S (Marks: 2)	R (Marks: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2

Participant's Zone Size (mm) or MIC (ug/ml)	1 microgram per millilitre	1 microgram per millilitre	2 microgram per millilitre	12 microgram per millilitre	4/76 microgram per millilitre
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

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

	Genus		Species		
Expected Result (Identification of given organism)	<i>Escherichia</i> (Marks: 3)		<i>coli</i> (Marks: 2)		
Participant's Answer	<i>Escherichia</i> (Marks: 3)		<i>coli</i> (Marks: 2)		
Antibiotics	Nitrofurantoin	Co-trimoxazole	Ertapenem	Amikacin	Cefuroxime
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: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2
Participant's Zone Size (mm) or MIC (ug/ml)	Less than or equal to 16 microgram per millilitre	Less than or equal to 20 microgram per millilitre	Less than or equal to 0.5 microgram per millilitre	Less than or equal to 2 microgram per millilitre	4 microgram per millilitre
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

## 2.3 Organism Isolated from Blood : (Marks: 15)

	Genus		Species		
Expected Result (Identification of given organism)	<i>Enterococcus</i> (Marks: 3)		<i>faecalis</i> (Marks: 2)		
Participant's Answer	<i>Enterococcus</i> (Marks: 3)		<i>faecalis</i> (Marks: 2)		
Antibiotics	Benzylpenicillin/ Ampicillin	Teicoplanin	Linezolid	Gentamicin High Level	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: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2
Participant's Zone Size (mm) or MIC (ug/ml)	2 microgram per millilitre	Less than or equal to 0.5 microgram per millilitre	2 microgram per millilitre	SYNERGY	1 microgram per millilitre
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

## Q3.: Serology:

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

Q.No.	3.1.1	3.1.2
Test	Herpes IgM	ASO
Expected Result	Negative (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Not Attempted (Not evaluated.)	Negative (Marks: 4)

Center Comments	ASO tested with Recombigen kit
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Marks Obtained :-- 4

## 3.2 : Perform the Blood Borne Viral (BBV) serology: HBsAg, HCV and HIV antibody on both the samples (Sample nos. 3.2.1 &amp; 3.2.2) (Marks: 12)

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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)	Negative ( Marks: 2)	Negative ( Marks: 2)
3.2.2	Expected Result	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Reactive ( Marks: 2)	Negative ( Marks: 2)	Negative ( Marks: 2)
Center Comments		HIV tested with COMBAIDS-RS Advantage kit based on Dot Immunoassay		

Marks Obtained :-- 12

**Grand Total Marks : 71**

**Marks Obtained: 71**

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

**\*-----End of Report-----\***