



# 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: DLH252 / Bansal Hospital, Bhopal )

Batch Name	22nd QC, November	Batch Marks	80
Start By Date	15-Nov-2019	Submit By Date	16-Dec-2019

#### Q 1. Smear :

**1.1 : Stool Sample: A 48 year old female patient, HIV positive, presenting with complaints of abdominal pain & loose stool for 1 month. Smear prepared from stool sample is provided. Perform Kinyoun Stain & report as below. (Marks: 5 )**

**Expected Result (Findings):--Acid fast (2) Oocysts of Isospora seen (2). (Marks :4)**

Participant's Answer (Findings):--Few, Cystoisospora belli oocysts with two sporocysts and Few Cystoisospora belli oocysts with granular zygote are seen. (Marks :2)

**Expected Result (Interpretation):--Infection with Isosporiasis (1). (Marks :1)**

Participant's Answer (Interpretation):--Diarrhoeal disease caused by Cystoisospora belli. (Marks :1)

**Marks Obtained :-- 3**

**1.2 : Blood Culture Broth: A 12 year old boy presenting with fever & vomiting for 3 days & altered sensorium for 1 day. The blood culture of the patient signaled positive after 14 hrs of incubation. The smear prepared from blood culture bottle is provided. Perform Gram stain & report as below. (Marks: 5 )**

**Expected Result (Findings):--Short gram positive bacilli (3). (Marks :3)**

Participant's Answer (Findings):--Many, Non-spore-forming, Gram positive bacilli seen. (Marks :3)

**Expected Result (Interpretation):--Possibility of Listeria infection (2). (Marks :2)**

Participant's Answer (Interpretation):--Suggestive of Meningitis due to Listeria monocytogenes (Marks :2)

**Marks Obtained :-- 5**

**1.3 : Pus Sample: A 25 year old female patient presenting with swelling in the left axillary region. Smear prepared from aspirated pus is provided to you. Perform Gram stain & report as below. (Marks: 5 )**

**Expected Result (Cells):--Few (1) PMN cells & degenerated amorphous material seen(1). (Marks :2)**

Participant's Answer (Cells):--Occasional Pus cells seen. (Marks :2)

**Expected Result (Organism):--Many(1) GPCs in groups resembling Staphylococcus in morphology(1). (Marks :2)**

Participant's Answer (Organism):--Gram positive cocci in singles, pairs and tetrads are seen. (Marks :1)

**Expected Result (Interpretation):--Staphylococcus infection (1). (Marks :1)**

Participant's Answer (Interpretation):-- (Marks :1)

**Marks Obtained :-- 4**

#### 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 Blood: (Marks: 15 )**

	Genus	Species
Expected Result (Identification of given organism)	<i>Shigella</i> (Marks: 3)	<i>dysenteriae</i> (Marks: 2)

Participant's Answer		Shigella (Marks: 3)		dysenteriae (Marks: 2)	
Antibiotics	Ampicillin	Ceftriaxone	Ciprofloxacin	Cefepime	Meropenem
Expected Result	R(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	S (Marks: 2)	R (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Participant's Comments: Catalase negative Shigella, ( Shigella dysenteriae type -1 Shigella shiga).					
Marks Obtained: 15					

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

		Genus		Species	
Expected Result (Identification of given organism)		Enterococcus (Marks: 3)		faecalis (Marks: 2)	
Participant's Answer		Enterococcus (Marks: 3)		faecalis (Marks: 2)	
Antibiotics	Penicillin	Gentamicin High Level	Linezolid	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: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

## 2.3 Organism Isolated from Endotracheal aspirate: (Marks: 15 )

		Genus		Species	
Expected Result (Identification of given organism)		Acinetobacter (Marks: 3)		baumannii complex (Marks: 2)	
Participant's Answer		Acinetobacter (Marks: 3)		baumannii complex (Marks: 2)	
Antibiotics	Amikacin	Ciprofloxacin	Colistin	Meropenem	Piperacillin/Tazobactam
Expected Result	R(Marks: 2)	R(Marks: 2)	S(Marks: 2)	R(Marks: 2)	R(Marks: 2)
Participant's Answer	R (Marks: 2)	R (Marks: 2)	S (Marks: 2)	R (Marks: 2)	R (Marks: 2)
Participant's Test Method	Vitek -2	Vitek -2	Vitek -2	Vitek -2	Vitek -2
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Participant's Comments: Carbapenemase					
Marks Obtained: 15					

## 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	Typhidot (IgM)	CMV- IgG
Expected Result	Negative (Marks: 4)	Positive (Marks: 4)
Participant's Answer	Negative (Marks: 4)	Positive (Marks: 4)

Marks Obtained :-- 8

## 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 )

Sample		HIV Antibody	HBsAg	HCV Antibody
3.2.1	Expected Result	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive ( Marks: 2)	Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)
3.2.2	Expected Result	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)

Marks Obtained :-- 12

**Grand Total Marks : 80**

**Marks Obtained: 77**

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

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