



# MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

## IAMM EQAS New Delhi

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### Result ( Code No: DLH470 / M.G.GENERAL HOSPITAL, NAVSARI, GUJARAT )

Batch Name	22nd QC, November	Batch Marks	76
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):--MANY PUS CELLS, FEW EPITHELIAL CELLS, MANY ACID FAST SPINDLE SHAPED PINK COLOURED OOCYST SIZE OF 10-20 UM ARE SEEN (Marks :4)

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

Participant's Answer (Interpretation):--SUGGESTIVE OF OOCYST OF ISOSPORA BELLI -INFECTION. (Marks :1)

**Marks Obtained :-- 5**

**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 gram positive bacilli of varying size are seen. few gram positive cocci in pair are also seen (Marks :3)

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

Participant's Answer (Interpretation):--suggestive of S.pneumoniae infection (Marks :0)

**Marks Obtained :-- 3**

**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):--MANY PUS CELLS ARE SEEN. (Marks :2)

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

Participant's Answer (Organism):--MANY GRAM POSITIVE COCCI IN PAIR, IN TETRAD AND IN LARGE CLUSTER ARE SEEN (Marks :2)

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

Participant's Answer (Interpretation):--SUGGGESTIVE OF STAPHYLOCOCCUS SPECIES( AUREUS) INFECTION. (Marks :1)

Marks Obtained :-- 5

**Q 2.** 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:

2.1 (Marks: 15 )

	Genus		Species		
Expected Result (Identification of given organism)	<i>Shigella</i> (Marks: 3)		<i>dysenteriae</i> (Marks: 2)		
Participant's Answer	<i>Shigella</i> (Marks: 3)		<i>dysenteriae</i> (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)
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

2.2 (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	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)
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

2.3 (Marks: 15 )

	Genus		Species		
Expected Result (Identification of given organism)	<i>Acinetobacter</i> (Marks: 3)		<i>baumannii complex</i> (Marks: 2)		
Participant's Answer	<i>Acinetobacter</i> (Marks: 3)		<i>baumannii complex</i> (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)	S (Marks: -1)	R (Marks: 2)
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 12					

**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)	NotAttempted (Not evaluated.)

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 & 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)	Positive ( 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)

Marks Obtained :-- 12

**Grand Total Marks : 76**  
**Marks Obtained: 71**

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

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