



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology



NABL

IAMM EQAS New Delhi

Department of Clinical Microbiology and Immunology
Sir Ganga Ram Hospital, Rajinder Nagar, New Delhi-110060

Dr. Chand Wattal
Chairman - EQAS

Dr. Jaswinder K. Oberoi
PT Coordinator - EQAS

Dr. Neeraj Goel
PT Coordinator - EQAS

Dr. Sanghamitra Datta
PT Quality Manager - EQAS

Dr. Reena Baveendran
PT Technical Manager - EQAS

Result (Code No: DLH611 / AYURSUNDRA SUPERSPECIALITY HOSPITAL)

Batch Name	21st QC, July	Batch Marks	80
Start By Date	12-Jul-2019	Submit By Date	20-Aug-2019

Q 1. Smear :

1.1 : Sputum Sample: A 25 year old male patient presenting with complaints of fever & cough for 3 weeks. Chest X-ray shows left hilar opacity. Perform ZN Stain & report as per RNTCP grading. (Marks: 5)

Expected Result (Findings):--Long, slender, beaded, acid fast bacilli seen 1-10/ oil immersion field. (Marks :3)

Participant's Answer (Findings):--Acid fast bacilli seen (Marks :2)

Expected Result (Grading):--2+ AFB seen. (Marks :2)

Participant's Answer (Grading):--3+ (Marks :2)

Participant's Comments	Sputum quality good
------------------------	---------------------

Marks Obtained :-- 4

1.2 : BAL Sample: A 35 year old diabetic patient presenting with fever & cough for 3 months. Chest X - ray shows left sided cavitory lesion. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Many PMN cells & occasional squamous epithelial cells seen. (Marks :2)

Participant's Answer (Cells):-->25 Polymorphonuclear neutrophils(PMN), <10 squamous epithelial cells per low power field. (Marks :2)

Expected Result (Organism):--Few gram positive, filamentous branching bacteria seen. (Marks :2)

Participant's Answer (Organism):--Plenty of gram positive bacilli in beaded branching filaments per oil immersion field (Marks :2)

Expected Result (Interpretation):--Suggestive of Pneumonia due to Nocardia. (Marks :1)

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

Participant's Comments	Kinyoun staining for confirmation
------------------------	-----------------------------------

Marks Obtained :-- 5

1.3 : Pus Sample: A 28 year old female presenting with swelling in the gluteal region. Perform Gram stain & report as below. (Marks: 5)

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

Participant's Answer (Cells):--Plenty of polymorphonuclear neutrophils(PMN) per low power field (Marks :2)

Expected Result (Organism):--Scanty gram negative bacilli seen. (Marks :2)

Participant's Answer (Organism):--Rare gram negative bacilli per oil immersion field (Marks :2)

Expected Result (Interpretation):--Abscess due to Gram negative bacteria. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of gram negative 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. 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 Pus:

2.1 (Marks: 15)

Genus	Species
-------	---------

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	Cefuroxime	Co-trimoxazole	Meropenem	Ampicillin	Piperacillin/Tazobactam
Expected Result	R(Marks: 2)	R(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	R (Marks: 2)	S (Marks: 2)	R (Marks: 2)	S (Marks: 2)
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Participant's Comments: Extended spectrum beta lactamase (ESBL) positive					
Marks Obtained: 15					

2.2 (Marks: 15)

	Genus	Species			
Expected Result (Identification of given organism)	<i>Klebsiella</i> (Marks: 3)	<i>pneumoniae</i> (Marks: 2)			
Participant's Answer	<i>Klebsiella</i> (Marks: 3)	<i>pneumoniae</i> (Marks: 2)			
Antibiotics	Amikacin	Cefepime	Cefuroxime	Meropenem	Nitrofurantoin
Expected Result	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)
Participant's Answer	R (Marks: 2)	R (Marks: 2)	R (Marks: 2)	R (Marks: 2)	R (Marks: 2)
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Participant's Comments: Carbapenemase producer(KPC)					
Marks Obtained: 15					

2.3 (Marks: 15)

	Genus	Species			
Expected Result (Identification of given organism)	<i>Streptococcus</i> (Marks: 3)	<i>agalactiae</i> (Group B Streptococci) (Marks: 2)			
Participant's Answer	<i>Streptococcus</i> (Marks: 3)	<i>agalactiae</i> (Group B Streptococci) (Marks: 2)			
Antibiotics	Ampicillin	Ceftriaxone	Clindamycin	Erythromycin	Levofloxacin
Expected Result	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	S (Marks: -1)	R (Marks: 2)	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	CRP	RPR
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Positive (Marks: 4)	Negative (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 & 3.2.2) (Marks: 12)

Sample		HIV Antibody	HBsAg	HCV Antibody
3.2.1	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Reactive (Marks: 2)

	Participant's Answer	Negative (Marks: 2)	Negative (Marks: 2)	Positive (Marks: 2)
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Negative (Marks: 2)	Positive (Marks: 2)	Negative (Marks: 2)

Marks Obtained :-- 12

Grand Total Marks : 80

Marks Obtained: 76

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

-----End of Report-----