



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: DLH470 / M.G.GENERAL HOSPITAL, NAVSARI, GUJARAT)

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):--MANY PUS CELLS ARE SEEN, FEW EPITHELIAL CELLS ARE SEEN MANY ACID FAST BACILLI ARE SEEN (Marks :2)

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

Participant's Answer (Grading):--+++ (3+) (>=10 BACILLI/OIL FIELD) (Marks :2)

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):--PLENTY OF PUS CELLS ARE SEEN.FEW EPITHELIAL CELLS ARE ALSO SEEN.. (Marks :2)

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

Participant's Answer (Organism):--MANY GRAM POSITIVE THIN FILAMENTOUS BACILLI ALSO SEEN (Marks :2)

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

Participant's Answer (Interpretation):--MOST PROBABLY NOCARDIA SPECIES INFECTION. (Marks :1)

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

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

Participant's Answer (Organism):--FEW GRAM POSITIVE LONG BACILLI ARE SEEN.OCCASIONAL GRAM POSITIVE COCCI ALSO SEEN. (Marks :0)

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

Participant's Answer (Interpretation):--MAY BE INFECTION DUE TO GRAM POSITIVE BACILLI MOST LIKELY ACTINOMYCETES. (Marks :0)

Marks Obtained :-- 2

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)

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)

Marks Obtained: 15

2.3 (Marks: 15)

	Genus	Species
Expected Result (Identification of given organism)	<i>Streptococcus</i> (Marks: 3)	<i>agalactiae</i> (<i>Group B Streptococci</i>) (Marks: 2)
Participant's Answer	<i>Streptococcus</i> (Marks: 3)	<i>agalactiae</i> (<i>Group B Streptococci</i>) (Marks: 2)

Antibiotics	Ampicillin	Ceftriaxone	Clindamycin	Erythromycin	Levofloxacin
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