



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: DLH67 / SAJEEVAN MEDICAL RESEARCH CENTRE PVT LTD)

Batch Name	26th QC, March	Batch Marks	80
Start By Date	10-Apr-2021	Submit By Date	24-May-2021

Q 1. Smear :

1.1 : Pus Sample: A 30 year old lactating lady presented with abscess in the left breast. Smear prepared from pus aspirate is provided. Perform Gram stain & report as below. (Marks: 5)

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

Participant's Answer (Cells):--Several pus cells and epithelial cells seen (Marks :2)

Expected Result (Organism):--Many GPCs (1) in pairs & small groups (1) seen. (Marks :2)

Participant's Answer (Organism):--Several Gram positive cocci in singles, pairs and clusters (Marks :2)

Expected Result (Interpretation):--Staphylococcal abscess. (Marks :1)

Participant's Answer (Interpretation):--Breast abscess due to Staphylococcus species (Marks :1)

Marks Obtained :- 5

1.2 : Sputum Sample: A 25 year old man presented with fever, cough & night sweats for 3 weeks. Smear prepared from sputum sample is provided. Perform ZN stain & report giving RNTCP grading. (Marks: 5)

Expected Result (Findings):--Slender, beaded acid fast bacilli seen. (Marks :1)

Participant's Answer (Findings):--Several acid fast bacilli seen morphologically resembling Mycobacterium tuberculosis (Marks :1)

Expected Result (Grading):--AFB seen 2+. (Marks :4)

Participant's Answer (Grading):--2+ (Marks :4)

Marks Obtained :- 5

1.3 : ET Sample: A 65 year old covid-19 patient on ventilatory support. Smear prepared from ET aspirate is provided. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Many (1) PMN (1) cells seen. (Marks :2)

Participant's Answer (Cells):--Few pus cells morphologically resembling lymphocytes (Marks :2)

Expected Result (Organism):--Many (1) GNCBs (1) seen. (Marks :2)

Participant's Answer (Organism):--Several Gram negative coccobacilli seen (Marks :2)

Expected Result (Interpretation):--Suggestive of VAP due to Acinetobacter species. (Marks :1)

Participant's Answer (Interpretation):--Ventilator associated pneumonia or event due to Acinetobacter species (Marks :1)

Marks Obtained :- 5

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 Pus: (Marks: 15)

Antibiotics	Benzylpenicillin/	Gentamicin High Level	Linezolid	Vancomycin	Tigecycline
Expected Result (Identification of given organism)	Enterococcus (Marks: 3)		faecium (Marks: 2)		
Participant's Answer	Enterococcus (Marks: 3)		faecium (Marks: 2)		

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	Ampicillin				
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)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	<6mm	<6mm	27mm	<6mm	24mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

2.2 Organism Isolated From ET Secretions: (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	Piperacillin/Tazobactam	Meropenem	Amlkacin	Levofloxacin	Co-trimoxazole
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)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	11mm	<6mm	<6mm	<6mm	<6mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

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

	Genus		Species		
Expected Result (Identification of given organism)	Salmonella (Marks: 3)		serotype Typhi (Marks: 2)		
Participant's Answer	Salmonella (Marks: 3)		serotype Typhi (Marks: 2)		
Antibiotics	Ampicillin	Ceftriaxone	Ciprofloxacin	Co-trimoxazole	Azithromycin
Expected Result	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)	S(Marks: 2)	S(Marks: 2)
Participant's Answer	S (Marks: 2)	S (Marks: 2)	R (Marks: 2)	S (Marks: 2)	S (Marks: 2)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	22mm	30mm	10mm	29mm	22mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

Q 3. : Serology:

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

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Q.No.	3.1.1	3.1.2
Test	CRP	Dengue NS1
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)

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

Marks Obtained :- 12

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Grand Total Marks : 80
Marks Obtained: 80

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

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