



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	23rd QC, March	Batch Marks	80
Start By Date	10-Jun-2020	Submit By Date	18-Jul-2020

Q 1. Smear :

1.1 : Pus Sample: A 32 year old female patient presented with pus discharge from one of the stitch sites. Smear prepared from the aspirated pus is provided to you. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate number of PMN cells seen. (Marks :1)

Participant's Answer (Cells):--Moderate number of polymorphonuclear cells and moderate number of squamous epithelial cells. (Marks :1)

Expected Result (Organism):--Many GNB seen. (Marks :3)

Participant's Answer (Organism):--Plenty of gram negative bacilli seen. (Marks :3)

Expected Result (Interpretation):--Wound infection by Gram negative bacilli. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of surgical site infection due to gram negative bacilli. (Marks :1)

Marks Obtained :-- 5

1.2 : Urine Sample: A 45 year old female patient presented with fever with chills & dysuria of 3 days duration. Smear prepared from uncentrifuged urine sample is provided to you. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate number of PMN cells seen. (Marks :1)

Participant's Answer (Cells):--Many polymorphonuclear cells seen. (Marks :1)

Expected Result (Organism):--Many GNB (2) (>1 GNB/ OIF) seen (1). (Marks :3)

Participant's Answer (Organism):--Plenty of thick capsulated gram negative bacilli seen. (Marks :2)

Expected Result (Interpretation):--Significant bacteriuria, suggestive of Urinary tract infection. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of UTI due to Klebsiella group of organisms. (Marks :1)

Marks Obtained :-- 4

1.3 : Pleural fluid: A 68 year old male presented with fever, cough & shortness of breath for 5 days. Smear prepared from aspirated pleural fluid is provided to you. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate number of PMN cells seen. (Marks :1)

Participant's Answer (Cells):--Moderate number of polymorphonuclear cells and occasional epithelial cells seen. (Marks :1)

Expected Result (Organism):--Many GPCs (2) in pairs (1) resembling Streptococcus pneumoniae seen. (Marks :3)

Participant's Answer (Organism):--Plenty of gram positive , capsulated, lanceolate shaped diplococci along with occasional gram negative bacilli seen. (Marks :2)

Expected Result (Interpretation):--Pneumonia due to Streptococcus pneumoniae . (Marks :1)

Participant's Answer (Interpretation):--Suggestive of infection due to Streptococcus pneumoniae. (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>Salmonella</i> (Marks: 3)	<i>Typhimurium</i> (Marks: 2)
Participant's Answer	<i>Salmonella</i> (Marks: 3)	<i>Paratyphi B</i> (Marks: 0)

Antibiotics	Ampicillin	Ceftriaxone	Ciprofloxacin	Meropenem	Co-trimoxazole
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: 13					

2.2 Organism Isolated From Pus: (Marks: 15)

	Genus	Species
Expected Result (Identification of given organism)	<i>Staphylococcus</i> (Marks: 3)	<i>haemolyticus</i> (Marks: 2)
Participant's Answer	<i>Staphylococcus</i> (Marks: 3)	<i>haemolyticus</i> (Marks: 2)

Antibiotics	Penicillin	Vancomycin	Ciprofloxacin	Cefoxitin	Co-trimoxazole
Expected Result	R(Marks: 2)	S(Marks: 2)	R(Marks: 2)	R(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	S (Marks: 2)	R (Marks: 2)	R (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: MR- CoNS (Methicillin resistant coagulase negative Staphylococci)					
Marks Obtained: 15					

2.3 Organism Isolated from Endotracheal aspirate: (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	Amikacin	Cefuroxime	Ceftriaxone	Imipenem	Co-trimoxazole
Expected Result	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)	R(Marks: 2)	S(Marks: 2)
Participant's Answer	R (Marks: 2)	R (Marks: 2)	R (Marks: 2)	R (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					

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	Dengue IgM
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)

Participant's Answer	Positive (Marks: 4)	Negative (Marks: 4)
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Center Comments	Dengue IgM Kit name: Panbio diagnostics
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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	Non-Reactive (Marks: 2)	Negative (Marks: 2)	Reactive (Marks: 2)
3.2.2	Expected Result	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Negative (Marks: 2)	Non-Reactive (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.

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