



# 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	24th QC, July	Batch Marks	76
Start By Date	26-Sep-2020	Submit By Date	06-Nov-2020

#### Q 1. Smear :

**1.1 : ET Sample: A 75 year old man admitted in ICU with ventilatory support. Smear prepared from ET aspirate is provided. Perform Gram stain & report as below. (Marks: 5 )**

**Expected Result (Cells):--Moderate (1) number of PMN (1) cells seen (Marks :2)**

Participant's Answer (Cells):--Plenty of polymorphonuclear neutrophils (>25/HPF)and occasional epithelial cells seen (Marks :2)

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

Participant's Answer (Organism):--Moderate number of gram negative coccobacilli seen. (Marks :2)

**Expected Result (Interpretation):--VAP due to Acinetobacter baumannii. (Marks :1)**

Participant's Answer (Interpretation):--Pneumonia due to Acinetobacter spp. (Marks :1)

**Marks Obtained :-- 5**

**1.2 : Peritoneal Fluid: A 63 year old patient diagnosed as ovarian carcinoma on chemotherapy, admitted with abdominal distension. Smear prepared from peritoneal fluid is provided. Perform Gram stain & report as below. (Marks: 5 )**

**Expected Result (Cells):--Few number of PMN cells & scanty lymphocytes seen. (Marks :1)**

Participant's Answer (Cells):--No polymorphonuclear cells and occasional epithelial cells seen. (Marks :1)

**Expected Result (Organism):--Many Budding yeast cells with pseudohyphae seen. (Marks :3)**

Participant's Answer (Organism):--Plenty of oval budding yeast cells with pseudohyphae seen. (Marks :3)

**Expected Result (Interpretation):--Suggestive of Candida peritonitis. (Marks :1)**

Participant's Answer (Interpretation):--Fungal peritoneal infection due to candida spp. (Marks :1)

**Marks Obtained :-- 5**

**1.3 : Stool Sample: A 55 year old male, HIV positive presented with loose stools. Smear prepared from stool specimen is provided. Perform Kinyoun stain & report as below. (Marks: 5 )**

**Expected Result (Findings):--Many acid fast (1) oocysts seen (1). (Marks :2)**

Participant's Answer (Findings):--Moderate number of spherical acid fast structure measuring 4- 6 micrometer in diameter resembling oocyst of Cryptosporidium seen. (Marks :2)

**Expected Result (Interpretation):--Suggestive of diarrhoea due to Cryptosporidium. (Marks :3)**

Participant's Answer (Interpretation):--Oocyst of Cryptosporidium seen in stool of a immunosuppressed male patient suggestive of oppourtunistic parasitic infestations. Cryptosporidiasis due to acid fast oocyst of Cryptosporidium. (Marks :3)

**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 )**

		Genus	Species		
Expected Result (Identification of given organism)		<i>Staphylococcus</i> (Marks: 3)	<i>aureus</i> (Marks: 2)		
Participant's Answer		<i>Staphylococcus</i> (Marks: 3)	<i>aureus</i> (Marks: 2)		
Antibiotics	Cefoxitin	Erythromycin	Clindamycin	Vancomycin	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)					
Examiner Comments:		As per the CLSI antibiotic susceptibility interpretation for Vancomycin is based on MIC result only. Disc diffusion is not a valid method.			
Marks Obtained: 15					

## 2.2 Organism Isolated From BAL: (Marks: 15 )

		Genus	Species		
Expected Result (Identification of given organism)		<i>Streptococcus</i> (Marks: 3)	<i>pneumoniae</i> (Marks: 2)		
Participant's Answer		<i>Streptococcus</i> (Marks: 3)	<i>pneumoniae</i> (Marks: 2)		
Antibiotics	Penicillin	Ceftriaxone	Levofloxacin	Erythromycin	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)
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)					
Examiner Comments:		Ceftriaxone susceptibility for <i>S. pneumoniae</i> is recommended by MIC method only as per CLSI guidelines. Penicillin susceptibility for <i>S. pneumoniae</i> is recommended by MIC method only as per CLSI guidelines. However Oxacillin disc diffusion testing can be used as a surrogate marker to predict penicillin susceptibility.			
Marks Obtained: 15					

## 2.3 Organism Isolated from Stool: (Marks: 15 )

		Genus	Species		
Expected Result (Identification of given organism)		<i>Vibrio</i> (Marks: 3)	<i>cholerae</i> (Marks: 2)		
Participant's Answer		<i>Vibrio</i> (Marks: 3)	<i>cholerae</i> (Marks: 2)		
Antibiotics	Cefotaxime	Ampicillin	Tetracycline	Ciprofloxacin	Co-trimoxazole
Expected Result	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	S(Marks: 2)	R(Marks: 2)
Participant's Answer	S (Marks: 2)	I (Marks: 1)	S (Marks: 2)	S (Marks: 2)	R (Marks: 2)
Participant's Test Method	Disc diffusion	Vitek -2	Disc diffusion	Vitek -2	Vitek -2
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 14					

## Q3.: Serology:

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

Q.No.	3.1.1	3.1.2
Test	RPR	RA factor
Expected Result	Positive (Marks: 4)	Negative (Marks: 4)

Participant's Answer	Positive (Not evaluated.)	Negative (Marks: 4)
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Examiner Comments	RPR results have not been evaluated. This is due to the varied response of >30% of the participating centers.
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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)	Reactive ( Marks: 2)	Non-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)	Non-Reactive ( Marks: 2)	Non-Reactive ( Marks: 2)

Marks Obtained :-- 12

**Grand Total Marks : 76**

**Marks Obtained: 75**

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

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