



MICROBIOLOGY EXTERNAL QUALITY ASSURANCE SCHEME

Under the aegis of Indian Association of Medical Microbiology

IAMM EQAS New Delhi

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Result (Code No: DLH688 / Midnapore Medical College)

Batch Name	28th QC, November	Batch Marks	75
Start By Date	17-Nov-2021	Submit By Date	24-Dec-2021

Q.1. Smear :

1.1 : A 55 year old man who is a known case of alcoholic liver disease presented with fever & abdominal distension of 3 days duration. Smear prepared from ascitic fluid is provided to you. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate no. of PMN cells seen. (Marks :2)

Participant's Answer (Cells):--Few polymorphonuclear cells seen (Marks :2)

Expected Result (Organism):--Moderate no. of gram negative bacilli seen. (Marks :2)

Participant's Answer (Organism):--Gram positive lanceolate shaped diplococci seen (Marks :0)

Expected Result (Interpretation):--Gram negative bacterial peritonitis. (Marks :1)

Participant's Answer (Interpretation):--Suggestive of pneumococcal peritonitis (Marks :0)

Marks Obtained :-- 2

1.2 : A 45 year old man, HIV positive presented with loose stool. Smear from Stool specimen is provided. Perform Kinyoun stain & report as below. (Marks: 5)

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

Participant's Answer (Findings):--Many acid fast oocysts seen (Marks :2)

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

Participant's Answer (Interpretation):--Diarrhea due to cryptosporidium infection (Marks :3)

Marks Obtained :-- 5

1.3 : A 5 year old child presented with fever & shortness of breath, 5 days duration. Smear prepared from bronchoalveolar lavage is provided. Perform Gram stain & report as below. (Marks: 5)

Expected Result (Cells):--Moderate no. of (1) PMN cells (1) & no squamous epithelial cells seen. (Marks :2)

Participant's Answer (Cells):--Moderate polymorphonuclear cells seen (Not evaluated.)

Expected Result (Organism):--Many Gram negative pleomorphic bacilli resembling Haemophilus influenzae seen. (Marks :2)

Participant's Answer (Organism):--Gram positive cocci in pairs seen (Not evaluated.)

Expected Result (Interpretation):--Suggestive of pneumonia caused by H.influenzae. (Marks :1)

Participant's Answer (Interpretation):--Pneumonia due to Enterococcus infection (Not evaluated.)

Examiner Comments	This question has been withdrawn from evaluation.
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Marks Obtained :-- (Not evaluated.)

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 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	Ciprofloxacin	Tetracycline	Amikacin	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)	S (Marks: 2)	S (Marks: 2)	S (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)	30 mm	28 mm	29 mm	21 mm	10 mm
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 15					

2.2 Organism Isolated From Urine: (Marks: 15)

		Genus		Species	
Expected Result (Identification of given organism)		<i>Escherichia</i> (Marks: 3)		<i>coli</i> (Marks: 2)	
Participant's Answer		<i>Escherichia</i> (Marks: 3)		<i>coli</i> (Marks: 2)	
Antibiotics	Nitrofurantoin	Co-trimoxazole	Ertapenem	Amikacin	Cefuroxime
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)	I (Marks: 1)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion
Participant's Zone Size (mm) or MIC (ug/ml)	18	21	30	17	18
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 14					

2.3 Organism Isolated from Blood : (Marks: 15)

		Genus		Species	
Expected Result (Identification of given organism)		<i>Enterococcus</i> (Marks: 3)		<i>faecalis</i> (Marks: 2)	
Participant's Answer		<i>Enterococcus</i> (Marks: 3)		<i>faecalis</i> (Marks: 2)	
Antibiotics	Benzylpenicillin/ Ampicillin	Teicoplanin	Linezolid	Gentamicin High Level	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)	R (Marks: 0)
Participant's Test Method	Disc diffusion	Disc diffusion	Disc diffusion	Disc diffusion	E- Test
Participant's Zone Size (mm) or MIC (ug/ml)	21 mm	15 mm	23 mm	20 mm	2 ug/ml
Correct:-- 2 Minor Error:-- 1 Major Error:-- 0 Very Major Error:-- (-1)					
Marks Obtained: 13					

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	Herpes IgM	ASO
Expected Result	Negative (Marks: 4)	Negative (Marks: 4)
Participant's Answer	Negative (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)	Non-Reactive (Marks: 2)
	Participant's Answer	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
3.2.2	Expected Result	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)
	Participant's Answer	Reactive (Marks: 2)	Non-Reactive (Marks: 2)	Non-Reactive (Marks: 2)

Marks Obtained :-- 12

Grand Total Marks : 75

Marks Obtained: 69

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

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