## UNIVERSITY OF JAFFNA, SRI LANKA BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES SECOND YEAR FIRST SEMESTER EXAMINATION-JULY 2013

## MLSMM2103 MEDICAL MICROBIOLOGY

## PAPER II

Date: 22.08.2013 Time: Two hours

## Answer all questions

a) Name three staining methods used in the diagnosis of bacteria (15marks)

b) Give **two** examples of bacteria stained by each staining method you mentioned in (a)**and** their appearance (30marks)

c) Briefly mention the steps of one of the staining method you mentioned in (a) (55marks)

- 2. Write short notes on
  - a) C3 containment (40marks)
  - b) Sterilization methods used in clinical Microbiology laboratories (60marks)

3.
a) Name three parve jacteriaother than Haemophilus (15 marks)

- b) Name three genera of *Haemophilus*(15marks)
- c) Describe briefly how you would identify *Haemophilus*to species level in the laboratory (70marks)
- 4. Describe briefly how to differentiate the following bacteria in a laboratory
  - a) Staphylococcus aureus from Staphylococcus epidermidis(30marks)
  - b) Streptococcus pneumoniae from Streptococcus viridians(35marks)
  - c) E coli from Klebsiella (35marks)
- 5. Write short notes on
  - a) Analytical profile index(API) (40marks)
  - b) Antibiotic sensitivity test (ABST) (60marks)

6.			
	a)	Name five bacteria that produce the enzyme urease	(25marks)
	b)	Name five biochemical tests other than urease test carried out in	
		the Microbiology laboratory to identify bacteria	(25marks)
	c)	Describe briefly how to perform urease test	(50marks)
7.			
	a)	Name 3 specimens that are used to isolate Salmonella typhi	
		on culture media (15marks)	
	b)	Describe the colonies of Salmonella typhionXLD agar andon	
		MacConkey agar	(30marks)
	c)	Describe how you would identify Vibrio cholerae in the laboratory	(55marks)
8.			
	a)	Name twomicroaerophilic bacteria	(10marks)
	b)	Name five anaerobic bacteria other than Clostridia (15 marks)	
	,	Describe briefly how you would cu!ture and identify	
		Clostridium perfringens	(75marks)
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