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**BAHI-006** 

# 00324

### B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BMLT)

## Term-End Examination June, 2013

**BAHI-006: MICRO-BIOLOGY** 

Time: 3 Hours Maximum Marks: 70

#### PART-A

Answer any three questions:

10x3=30

- Describe the morphology , cultural characteristics and pathogenicity of Mycobacterium tuberculosis.
- 2. Define the terms Sterilization and Disinfection.

  Describe various methods emplying dry heat as means of sterilization with special reference to hot air oven.
- Describe the morphology , culture characters , biochemical properties, antigenic structure of Penumococcus. Name the diseases caused by Streptococcus Pneumonia.
- 4. Enumerate organism causing bacillary desentery in man. Describe the morphology, cultural characteristics, biochemical reactions and laboratory diagrams of bacillary desentery.

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#### PART-B

- 5. Write short notes on any four of the following:
  - (a) Bacterial capsule

5x4 = 20

- (b) Enriched semi solid media
- (c) Stoke's method of antibiotic sensitivity testing
- (d) Albert staining technique
- (e) Treponema pallidum
- 6. Write briefly on *any two* of the following: 5x2=10
  - (a) Bacteriophage
  - (b) Differences between Superficial and deep mycoses
  - (c) Bacterial growth curve
  - (d) HIV and AIDS

#### **PART-C**

7.	Indicate	True (T)	or False	(F) for	the fol	lowing:	1x5=5
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- (a) Sabour and dextrose agar (SDA) is a selective medium used for culture of fungi in the laboratory.
- (b) Meningococci are Gram negative diplococci
- (c) Clostridium tetani is an anaerobic bacterium causing tetanus in man.
- (d) Vibrio cholerae is a comma shaped actively motile gram negative bacterium causing cholera.
- (e) Eleck's test is done to estbalish the pathogenicity of *staphylococcus aurens*.

8.	Choose	appropriate	answer	for	the	following	g :	1x5=5
	(a)	C	211666 64	27112	allw	transmi	tte	4

- (a) \_\_\_\_\_ causes sexually transmitted disease affecting the genitalia.
  - (i) gonococcus
  - (ii) meningococcus
- (b) \_\_\_\_\_ stain is an example of differential stain most commonly employed in microbiology laboratory.
  - (i) Methylene blue staining
  - (ii) Gram staining

(c)		is a commonly employed				
	serc	logical test for diagnosing enteric				
	(typ	hoid) fever				
	(i)	Tuberculin test				
	(ii)	widal test				
(d)		are fungi causing skin infection				
	in m	nan and animals.				
	(i)	Dermatophytes				
	(ii)	Dimorphic fungi.				
(e)		are viruses which infect				
	bacteria.					
	(i)	Bacteriophage				
	(ii)	Retrovirus				