BACHELOR OF MEDICAL LABORATORY TECHNOLOGY FIRST SEMESTER

MICROBIOLOGY I

BMLT - 104 | SPECIAL REPEAT

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective]

Time: 30 min. Choose the correct answer from the following:

Marks: 20 $1 \times 20 = 20$

Full Marks: 70

- 1. Viable count of bacteria means
 - a. Total count of bacteria
 - c. Both a & b

- b. No of living cell
- d. No of death bacteria
- 2. Lipopolysaccharide is a major component of cell in
 - a. Gram positive bacteria
 - c. Fungus

- b. Gram negative bacteria
- d. Parasite
- 3. Holder method is the example of
 - a. Tyndallisation
 - c. Dry heat sterilization

b. Pasteurization of milk

None of the above

- d. Chemical method sterilization
- Chemical disinfectants which can be safely applied to living tissues to prevent infection are known as:
 - a. Antisetics
 - c. Ethyene oxide

- Formaldehyde
- Which of the following sterilisation conditions are used in autoclave?
 - 121°C, 15 pounds pressure/sq inch,
 - 15 minutes
 - 160°C, 20 pounds, pressure/sq inch
 - c. 20 minutes

- b. 140°C, 10 pounds pressure/sq inch,
 - 15 minutes
- d. None of the above
- Which bacterial spores are used as sterilisation control in autoclave?
 - a. Clostridium perfringens
 - c. Bacillus stearothermophilus
- b. Bacillus cereus
- d. Pseudomonas aeruginosa
- The process by which an article, surface or medium is made free of all microorganisms either in the vegetative or spore form is known as
 - a. Sterilization

b. Disinfection

c. Asepsis

- d. Antiseptic
- Function of decolourizer in gram staining is
 - a. Remove the excess stain
- b. Form complex with crystal violet

- c. Swell the bacterial cell
- d. Both b & c

as:			een 25°C and 40°C are
sophile rmopl		h d	. Psychrophiles . All of the above
tion ti	ime of Mycobacteri	um tuberculos	sis is about:
econd nours	1s		. 20 minutes . 20 days
	in microscope also	called as	
idense ge	er		. Fine adjustment . Illuminator
	of 10X objective lens		
h Pow		b	. Low power
n		d	. Oil immersion
as disc chnike	covered by	b	. Karry B Mullis
ert			. Fleming
	dern microbiology		
uwenl	hoek		. Joshep lister . Louis pastuer
ning		u	. Louis pastuei
iodine oluriza		b	. Mordant
nary s		d	. Secondary Stain
ncent	tration required to p		
			. 0.25%
		b b	
	oked meat broth is media		. Enrichment media
	c media		. Nutrient media
ne follo	lowing are example	es of enriched	media except
rient a	agar	b	. Blood agar
	e agar		. Loeffler's serum slope
m vaco ert Ko	ccine was coined by		. Louis Pasteur
l Ehrli			. Edward Jenner
know	on as the father of a	ntiseptic surge	ery?
ert Ko	och	b	. Louis Pasteur
	lich	d	I. Joseph Lister

USTM/COE/R-01

(<u>Descriptive</u>)

Time: 2 hrs. 30 min. Marks: 50

[Answer question no.1 & any four (4) from the rest]

1.	Define Sterilization. Explain the process of sterilization	2+8=10
2.	Write the principle procedure and interpretation of gram staining	10
3.	a. Write the principle of ZN staining b. Explain bacterial growth curve along with Diagram	4+6=10
4.	a. Classify bacterial based on their morphologyb. Discuss shortly about host parasite interaction	6+4=10
5.	a. What do you mean by pure culture? Explain the various methods of isolating bacteria in pure culture.b. List at least five differences between eukaryotic and prokaryotic cells.	5+5=10
6.	a. What is anaerobiogenesis? Explain various methods of anaerobiogenesis for cultivation of anaerobic bacteria. Name two aerobic bacteria.b. Explain Koch postulates.	6+4=10
7.	a. What is microscopy? What are the various types of microscopes? Explain the principle of light microscope and electron microscope.b. Write short note about the contributions of Louis Pasteur and Robert Koch in the development of microbiology.	6+4=10
8.	What is culture media? What is the important of culture media in microbiology? Describe the types of culture media in details.	10

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