BV (3/CBCS)/MLT/MDT-VC-3016

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2023

MEDICAL LABORATORY TECHNICIAN/ MEDICAL LAB AND MOLECULAR DIAGNOSTIC TECHNOLOGY

QP: Medical Laboratory Technician

Paper: MLT/MDT-VC-3016

(Microbiology—II)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

	(c) Nome come mycoroxina,
1. Fill	$1 \times 7 = 7$ in the blanks :
(a)	is an example of sphirocheate.
(b)	is associated with antral gastritis.
(c)	Neisseria meningitides is also known as
(d)	Aflatoxins are classified as group carcinogens by the International Agency for Research on Cancer.

- (e) In ____ staining, the background is stained, leaving the specimen unstained or transparent.
- (f) Shigella spp. can invade and replicate within the ____ lining of the human colon.
- (g) Mycotoxins are toxic metabolites produced by _______

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2. Answer the following questions:

 $2 \times 4 = 8$

- (a) How will you classify Enterobacteriaceae based on lactose fermentation?
- (b) What are the pigments produced by the P. aeruginosa?
- (c) Name some mycotoxins.
- (d) How will you differentiate pneumococci from Viridans streptococci?
- 3. Answer any three of the following questions:

5×3=15

- (a) Write a note on opportunistic mycology.
- (b) Explain various stages of meningococcal infection.
- (c) Write a note on Hanging Drop Motility.

(3)

- (d) What do you mean by enteric fever?
- (e) Name any technique to demonstrate bacterial cell wall and explain.
- 4. Answer the following questions: 10×3=30
 - (a) Write down the beneficial effects of fungi.
 Classify morphologic and systemic classification of fungi along with examples.

 4+3+3=10

OR

Write in details about morphology, colony characteristics, pathogenesis and laboratory diagnosis of *Vibrio cholerae*.

2+2+3+3=10

(b) Mention the bacterial agents that can cause urinary tract infection. What do you mean by Diene's phenomenon? Explain briefly about the pathogenesis and laboratory diagnosis of *Proteus*.

2+2+3+3=10

OR

How will you investigate a fungal infection?

(c) Write in details about morphology, colony characteristics, pathogenesis and laboratory diagnosis of pneumococcus. 2+2+3+3=10

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What are mycotoxins? Write about the what are my causal organisms, sources and health impacts of Aflatoxins, Ochratoxins and 1+1+2+6=10 Zearalenone. enonesup Baswolioi a.i. rawaa.

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