

2023

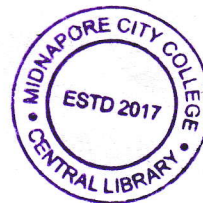
BMLT 5th Semester Examination

Clinical Microbiology

PAPER — XIV (UNIT-27)

Full Marks : 40

Time : 2 hours



The figures in the right-hand margin indicate marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Illustrate the answers wherever necessary.

Answer Q. No. **1** and any **three** questions
from the rest.

- 1.** Answer any **five** questions : 2×5=10
- (a) What is dermatomycosis?
 - (b) What is the clinical importance of optochin test?
 - (c) What is the use of sodium hypochlorite in healthcare?
 - (d) What is cold sterilization?

/757

(Turn Over)



(2)

- (e) What are the best microbiological laboratory practices to kill endospore-forming bacteria?
- (f) What is meant by monomicrobial infection?
- (g) Define sepsis.
- (h) What is the purpose of use of CLED agar?
2. (a) Differentiate between true pathogens and opportunistic pathogens.
- (b) Discuss about the serotypic identification of *Escherichia coli*.
- (c) What are CONS? 4+4+2=10
3. (a) Write a short note on BSL-2.
- (b) Discuss about the laboratory methods used for diagnosis of suspected Black fever cases.
- (c) Discuss about the causative agents of UTI and its laboratory diagnosis. 4+3+3=10
4. (a) What are the different types of lenses used in light microscope? Calculate the total viewing magnification of an object when using the 100 × objective lens.

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(Continued)



(3)

- (b) Why does *Mycoplasma* spp. not belong to Gram profile?
- (c) Which lab method is considered as the gold standard for diagnosis of enteric fever? (2+2)+2+4=10
5. (a) What are the microbiological approaches to discriminate between *Pseudomonas aeruginosa* and *Klebsiella pneumoniae*?
- (b) How will you biochemically identify Late Lactose Fermenter (LLF) bacteria?
- (c) Write a brief note on fumigation. 4+3+3=10
6. (a) Discuss the clinical utility of antimicrobial susceptibility testing.
- (b) What is the laboratory diagnosis of stool specimen collected from suspected dysentery patient? 5+5=10

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