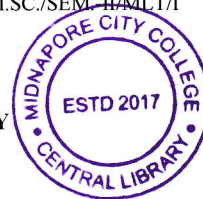


PG CBCS
M.Sc. Semester-II Examination, 2022
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 203
(MEDICAL MICROBIOLOGY)



Full Marks: 40

Time: 2 Hours

The figures in the right - hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

1. Answer any **two** questions: 8X2=16
- a) Discuss pathophysiology and laboratory diagnosis of *Klebsiella*. 4+4
 - b) Classify bacteria based on their flagella position. How do flagella work? Discuss about the toxin produce by *Vibrio cholerae*. 2+2+4
 - c) Describe briefly the life cycle and pathogenicity of *Paragonimus sp.* 6+2
 - d) Write down the different modes of detection and recovery of fungal infected clinical specimens. Mycotoxins are responsible for severe health problems – Explain it. 5 +3

GROUP - B

2. Answer any **four** questions: 4×4=16
- a) Discuss the outer membrane of prokaryotic cell.
 - b) Differentiate between endospore and vegetative cell.
 - c) State the antigenic structure of *Salmonella*.
 - d) Classify *Staphylococci* based on their hemolysis properties.
 - e) Describe briefly the sexual life cycle of *Plasmodium vivax*.
 - f) What are the symptoms and treatment of Filariasis? 2+2
 - g) Why *Trichophyton sp.* is known as one of the major causative microorganism of skin infections
 - h) What are the different clinical manifestations observed in candidiasis?

GROUP - C

3. Answer any **four** questions: 2×4=8
- a) State Koch postulate.
 - b) Write the function of porin channel.
 - c) If you find a violet coloured grape like appearance of bacteria under microscope, what kind of bacteria is that? Name any two characteristics of that bacterium. 1+1
 - d) State the morphological feature of *Neisseria gonorrhoeae*?
 - e) What is cerebral malaria?
 - f) What is the difference between anamorph and teleomorph?
 - g) How could you diagnose Taeniasis?
 - h) What happens if ascariasis is left untreated?