

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Biological and Life sciences

Bachelor of Science Honours in Microbiology

Mid Term Examination - Mar 2024

Duration : 90 Minutes

Max Marks : 50

Sem VI - P1UC601T - Medical MicrobiologyGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What are the most common bacterial pathogens responsible for causing respiratory infections? K2 (2)
- 2) How do infectious diseases impact global health? K1 (3)
- 3) Explain emerging infectious diseases are currently of concern, and what factors contribute to their emergence and spread? K2 (4)
- 4) Explain the common signs and symptoms of bacterial infections in the respiratory tract? K2 (6)
- 5) What are the criteria for interpreting Gram stain results and identifying common bacterial morphologies? K3 (6)
- 6) How do vaccines induce immunity against microbial diseases, and what are the different types of vaccines available? K3 (9)
- 7) Recommend emerging technologies, such as next-generation sequencing and systems immunology, advance our understanding of the immune response to microbial pathogens and aid in the development of novel therapeutics and vaccines? K4 (8)
- 8) What strategies are being explored to target microbial virulence factors for therapeutic intervention? K4 (12)

OR

What are the key components of infection control programs in healthcare facilities, and how do they help prevent the spread of infections? K4 (12)