

School of Medical and Allied Sciences**B.Sc Medical Lab Technology
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem VI - BMLS6004 - Cytopathology**General 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) Define telepathology/telectology and elucidate its function in digital cytopathology, highlighting its role in remote diagnosis and consultation. K1(2)
- 2) Demonstrate the process of conducting an aspiration cytology procedure, including sample collection and interpretation. K2(4)
- 3) Summarize and explain the impact of advanced techniques like molecular cytology and immunocytochemistry on enhancing the specificity and sensitivity of cytological diagnoses. K2(6)
- 4) Organize the various enzyme staining techniques used in diagnostic cytopathology, categorizing them based on the enzymes they detect and their respective diagnostic implications. K3(9)
- 5) Organize a workflow for conducting the Papanicolaou technique in a cytology laboratory, including specimen collection, staining, and interpretation of results. K3(9)
- 6) Justify the importance of Cryostat sectioning in diagnostic cytopathology and its applications. K5(10)
- 7) Categorize the indications for aspiration cytology and classify its utility in different medical specialties. K4(12)
- 8) Evaluate the utility of enzyme cytochemistry in differentiating between benign and malignant cells in cytological specimens. K5(15)
- 9) Evaluate the effectiveness of telepathology/telectology systems in facilitating timely diagnosis and treatment decisions for cytological specimens. K5(15)
- 10) Design a telepathology/telectology system for remote consultation and diagnosis of cytological specimens, considering factors such as image transfer, data security, and quality assurance. K6(18)