

Q.P. Code: 104390

Reg. No.:.....

**First Semester M.Sc Speech Language Pathology Degree Regular/
Supplementary Examinations November 2024**

SLP 104: Technology in Speech Language Pathology

Time: 3 hrs

Max marks: 80

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(5x16=80)

1. State and explain the tasks performed by the Hard Disk in the functioning of a computer. How does the RAM size influence the performance of the computer.
2. Differentiate between condenser and electret type of microphones. Explain the basic structure and operation of a dynamic loudspeaker.
3. Explain the need for an analog to digital converter and a digital to analog converter in a digital signal processing system. List the performance indicators of analog to digital converters.
4. Explain the steps involved in converting a written text to synthetic speech. With a block diagram, illustrate the process to obtain cepstrum of a speech signal.
5. Explain the basic principle of CT scan Imaging system. How is 'Functional MRA' advantageous over 'conventional MRI'. Explain the technology behind BOLD fMRI.
