

[LJ 1016]

OCTOBER 2016

Sub. Code: 3006

**MASTER OF AUDIOLOGY & SPEECH LANGUAGE PATHOLOGY EXAMS
FIRST YEAR
PAPER VI – PSYCHOPHYSICS**

Q.P. Code : 433006

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. How do you apply the concepts of signal detection theory in Audiology?
2. Give an evidence for each template and temporal theory of pitch perception also describe in detail about the mechanisms of pitch perception of pure tone and complex tone.

II. Write notes on:

(10 x 6 = 60)

1. Describe the transformed up-down procedure of threshold tracking. List its merits and demerits.
2. What are the effects of frequency and presentation level on difference limen for frequency?
3. Explain the symmetrical and asymmetrical notched-noise method of auditory filter shape and bandwidth estimation.
4. What are the mechanisms behind co-modulation masking release?
5. With an appropriate example, explain the effects of carrier type and frequency on amplitude modulation detection thresholds.
6. Describe the physiological mechanism of loudness adaptation.
7. What is simultaneous and sequential stream segregation? Describe how binaural cues help in auditory stream segregation.
8. What are beats, consonance, and dissonance?
9. Describe the cues that help in elevation perception.
10. Discuss in detail about the cues that help in horizontal localization.
