Question Paper

Marks: 100

4D)

Long term average spectrum.

Exam Date & Time: 11-Feb-2020 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER MASTER OF SCIENCE (SPEECH - LANGUAGE PATHOLOGY) DEGREE EXAMINATION - FEBRUARY 2020

SUBJECT: MSL 601 - SPEECH SCIENCE AND SPEECH PRODUCTION (2018 SCHEME)

Answer all the questions. 1) Explain the various measures of respiratory analysis and briefly mention the instruments used for (20)respiratory evaluation in relevance to speech production. Describe the role of acoustic analysis of speech in forensic applications. Explain the various methods (20) 2) used in forensic speech analysis. Critically evaluate perturbation theory of speech production. 3A) (10)3B) Describe the aerodynamic characteristics of fricatives and vowels. (10)3C) Explain various aspects of prosody and their realization. (10)Explain any two methods used in speech synthesis. 3D) (10)4. Short Answer: Ultrasound technique in speech analysis. 4A) (5)4B) Aeroview (5)Applications of acoustic analysis in speech disorders. 4C) (5)

Duration: 180 mins.

(5)

Question Paper

Exam Date & Time: 13-Feb-2020 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER MASTER OF SCIENCE (SPEECH - LANGUAGE PATHOLOGY) DEGREE EXAMINATION - FEBRUARY 2020

SUBJECT: MSL 605 - NEUROBIOLOGY OF SPEECH LANGUAGE AND COGNITION (2018 SCHEME)

Marks: 100 Duration: 180 mins. Answer all the questions. 1) Discuss the neural basis of speech production. (20)2) Differentiate the types of declarative from non-declarative memories. (20)Discuss the advantages and disadvantages of fMRI and ERPs in cognitive research. Elaborate on a 3A) (10)potential way to overcome their limitations. Elaborate on any two behavioral techniques to explore the hemispheric lateralization of language (10)3B) processing. 3C) Write on the association among ageing, working memory and language processing. (10)The two languages in bilinguals are stored in distinct neural substrates. Critically evaluate this 3D) (10)statement. 4. Short Answer: MEG vs. EEG (5)4A) (5) 4B) Primary versus secondary ageing. Application of eye-tracking in cognitive science. 4C) (5)Deutsch and Deutsch model of attention. 4D) (5)----End-----