# MANIPAL UNIVERSITY

## FIFTH SEMESTER B.A.S.L.P. DEGREE EXAMINATION – AUGUST 2017

### SUBJECT: FLUENCY AND ITS DISORDERS (B 5.1)

Wednesday, August 16, 2017

Time: 10.00-13.00 Hrs.                                                    Max. Marks: 80

---

✍   **Answer ALL the questions.**

1A.   Explain various measures for assessing parameters of fluency.

1B.   Discuss the factors which influence the development of fluency.

                                                                    (6+6 = 12 marks)

**OR**

2A.   Differentiate Repetitions vs. Iterations.

2B.   Write on the different classifications of disfluencies.

                                                                    (2+10 = 12 marks)

3.   Explain Starkweather's nine tracks.

**OR**

4.   Elucidate the development of stuttering as per Van Riper's tracks.

                                                                    (12 marks)

5.   Explain stuttering as a deficit in speech motor system.

**OR**

6.   Explain Howell's EXPLAN model of fluency failure.

                                                                    (12 marks)

7.   Describe the Overall Assessment of Speaker's Experience of Stuttering (OASES) and its interpretation.

**OR**

8.   Explain the protocol followed during assessment of neurogenic stuttering.

                                                                    (12 marks)

9.   Explain Lidcombe program and critically evaluate.

**OR**

10.   Write a lesson plan for a 24 year old boy with moderate stuttering.

                                                                    (12 marks)

11. **Write short notes on:**

11A. Rate of speech measurement

11B. T-TRIP

11C. Articulatory arrest

11D. Secondary stuttering

11E. Wendell Johnson

11F. GILCU

11G. Brain differences in Individuals with Stuttering

11H. Naturalness assessment

11I. Application of Metronome in Stuttering therapy

11J. Lilypad Analogy

(2 marks × 10 = 20 marks)

꘏꘏꘏꘏꘏

| Reg. No. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|

# MANIPAL UNIVERSITY

## FIFTH SEMESTER B.A.S.L.P. DEGREE EXAMINATION – AUGUST 2017

### SUBJECT: TECHNOLOGY & AMPLIFICATION DEVICES FOR PERSONS WITH HEARING IMPAIRMENT (B 5.3)

Friday, August 18, 2017

Time: 10:00 – 13:00 Hrs.                                                                 Max. Marks: 80

✍  **Answer Section "A" and Section "B" in separate answer books.**

### PART - A (35 MARKS)

1. Write a short note on amplifiers and oscillators.

**OR**

2. Explain architecture and working of microprocessor.

(7 marks)

3. Explain the working of a PNP transistor.

**OR**

4. Mention the difference between an ideal diode characteristics with that of a normal diode.

(7 marks)

5. What is the aim of a DSP system? Mention the steps involved in A/D conversion.

**OR**

6. Explain in detail about the various units of a DSP based hearing aid.

(7 marks)

7. Define microphone. Write short note on velocity microphones.

**OR**

8. What are the steps involved in the reproduction of sound.

(7 marks)

9. Explain the working of CRO with a block diagram.

(7 marks)

**OR**

10. **Write short note on:**

10A. SLM

10B. Integrated SLM

(4+3 = 7 marks)

1. With appropriate example explain the working principle of compression and also describe the different types of compression.

**OR**

2. Describe the different techniques, which are available in the hearing aids to improve speech perception in noise.

(12 marks)

3. Expand EAC. List the purpose of doing EAC. Describe the measurements and analysis of any three electro-acoustic properties.

(12 marks)

**OR**

4A. How would you decide on to which ear the hearing aid has to be fitted?

4B. Discuss the role of ABR and ASSR in hearing aid selection.

(4+8 = 12 marks)

5. Describe the selection and rehabilitation options for geriatric individuals with hearing loss.

**OR**

6. Describe the process of selecting hearing aid through comparative method.

(12 marks)

7. **Write notes on ANY THREE:**

7A. DSL i/o

7B. RECD

7C. Head shadow effect

7D. Custom hearing aid

(3 marks × 3 = 9 marks)