

ALI YAVAR JUNG NATIONAL INSTITUTE OF SPEECH AND HEARING DISABILITIES
(DIVYANGJAN), MUMBAI – 4000 50

DIPLOMA IN HEARING AID AND EAR MOULD TECHNOLOGY (DHAEMT)
[Program Code: P04]

EXAMINATION FOR RCI RECOGNIZED CENTRES – JUNE, 2024
(REGULAR (2023 – 24) BATCH CANDIDATES MAY APPEAR FOR THIS EXAMINATION)

PAPER - I : HEARING AIDS AND ASSISTIVE LISTENING DEVICES
[Paper Code: P04 – T01]

Date : 06.06.2024
Time : 10.00 a.m. to 01.00 p.m.

Duration : 3 hrs.
Max. Marks: 80

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Q. I ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES (5 x 2 m = 10 marks)

- (1) What is a transducer?
- (2) Capacitor
- (3) Ohm's Law
- (4) Use of batteries
- (5) What is OP-AMPS?

Q. II WRITE WITH BRIEF EXPLANATION (ANY 4 OUT OF 5) (4 x 5 m = 20 marks)

- (1) Limitations of body level hearing aids
- (2) Types of cords used in hearing aid
- (3) Oscillators
- (4) Hearing aid analyzer
- (5) Difference between induction loop system and FM system

Q. III WRITE SHORT NOTES (ANY 5 OUT OF 6) (4 x 5 m = 20 marks)

- (1) AGC circuits with their functions
- (2) Advantages of wireless classroom amplification
- (3) Difference between Hard wire and induction Loop Systems
- (4) Troubleshooting of BTE hearing aids
- (5) Condenser and electret condenser microphones in hearing aid circuits
- (6) Digital Hearing Aids and its advantages.

Q. IV ANSWER IN DETAIL (ANY 2 OUT OF 4) (2 x 15 m = 30 marks)

- (1) What is modulation? Explain different types of modulation and describe amplitude modulation.
- (2) What are different group amplification devices? Describe in detail the advantages and disadvantages of each system.
- (3) Write an essay on different types of assistive listening devices and troubleshooting.
- (4) Describe the functioning of Hardwire and Infrared system in a classroom. State its advantages and limitations.

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PAPER - II : EAR MOULD TECHNOLOGY [Paper Code: P04 – T02]

Date : 08.06.2024

Time : 10.00 a.m. to 01.00 p.m.

Duration : 3 hrs.

Max. Marks: 80

Q. I ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES (2 m x 5 = 10 marks)

- (1) Conductive hearing loss
- (2) Importance of visual inspection of ear canal
- ✓ (3) Two causes of Sensorineural Hearing Loss
- (4) Ear tips for hearing aids
- (5) Function of Otoscope

Q. II WRITE WITH BRIEF EXPLANATION (ANY 4 OUT OF 5) (5 m x 4 = 20 marks)

- ✓(1) Defects that can be detected in an ear mould on visual inspection.
- ✓(2) Describe in detail the procedure for making shell of custom hearing aids.
- (3) Materials used in ear mould impression and precautions while selecting materials.
- ✓(4) Neat, labelled diagram of external ear.
- ✓(5) Advantages of soft ear mould.

Q. III WRITE SHORT NOTES (ANY 5 OUT OF 6) (4 m x 5 = 20 marks)

- ✓(1) Aural Rehabilitation ✓
- ✓(2) Ear mould and its role in hearing
- ✓(3) Difference between standard and custom ear moulds
- (4) State the psychological attributes of sound
- ✓(5) What is the purpose of vent in an ear mould?
- ✓(6) Setting up of ear mould lab ✓

Q. IV ANSWER IN DETAIL (ANY 2 OUT OF 4) (15 m x 2 = 30 marks)

- ✓(1) Describe in detail step by step protocol: before taking an impression, while taking an impression and after taking an impression of the ear.
 - (2) Explain about acoustic modifications of ear mould and its consequences.
 - ✓(3) What is ear mould? Describe in detail the different types of ear moulds and the preparation of a client for ear mould impression.
 - (4) Describe the various problems that occur during ear mould making and how you would rectify them.
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EXAMINATION FOR RCI RECOGNIZED CENTRES – JUNE, 2024
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PAPER - III : EMPLOYABILITY SKILLS (SOFT SKILLS) [Paper Code: P04 – T03]

Date : 10.06.2024

Time : 10.00 a.m. to 01.00 p.m.

Duration : 3 hrs.

Max. Marks: 80

Q. I ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES (2 m x 5 = 10 marks)

- (1) Employability skills
- (2) E-learning
- (3) Effect of Pollution
- (4) Strength
- (5) Critical thinking

Q. II WRITE WITH BRIEF EXPLANATION (ANY 4 OUT OF 5) (5 m x 4 = 20 marks)

- (1) Logical steps in decision making
- (2) Questions and responses
- (3) Communication.
- (4) Importance of punctuation marks
- (5) Content of application

Q. III WRITE SHORT NOTES (ANY 5 OUT OF 6) (4 m x 5 = 20 marks)

- (1) Types of cover letters
- (2) Characteristics of effective communication
- (3) Types of communication
- (4) Describe parts and function of a desktop computer
- (5) Various barriers to diversity
- (6) Types of expenses

Q. IV ANSWER IN DETAIL (ANY 2 OUT OF 4) (15 m x 2 = 30 marks)

- (1) Explain different types of sentences with suitable examples.
- (2) Write an essay on creation of inclusive workplaces.
- (3) Discuss best ways to handle the different types of customers.
- (4) Describe key elements of a resume and skills considered by interviewer in candidates.
