

MASTER OF SCIENCE (AUDIOLOGY)
M.Sc. (AUDIOLOGY) Sem-III : WINTER :- 2021
SUBJECT: IMPLANTABLE AUDITORY DEVICES

Day : Thursday
Date 27-01-2022

W-19545-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 80

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw diagrams **WHEREVER** necessary.
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Q.1 Attempt any **FOUR** out of **SIX**. **(15×4 = 60 Marks)**

- a) Explain in detail regarding the different types of bone conduction implantable devices and their components.
- b) Do you think decision making between cochlear implant and auditory brainstem implants is challenging in cases of inner ear malformations. Justify your answer.
- c) Explain signal processing in cochlear implants and the recommendations that needs to be considered during fitting.
- d) Discuss with help of evidence based studies the expanding criteria of cochlear implantation in pediatrics population.
- e) Explain the role of aided cortical potentials in long term assessment of auditory brainstem implants.
- f) Programming cochlear implants using behavioral or objective based methods. Evaluate this statement with help of research studies.

Q.2 Attempt any **FOUR** out of **SIX**. **(5×4 = 20 Marks)**

- a) Intra-operative procedures during cochlear implant surgery.
- b) ADIP scheme for cochlear implants.
- c) Candidacy for midbrain implant.
- d) EABR
- e) Programming middle ear implant.
- f) Hybrid cochlear implants.

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