

B.A.S.L.P.Sem – IV (2017 Course) : SUMMER - 2019
SUBJECT : IMPLANTABLE HEARING DEVICES

Day : Thursday
Date : 09/05/2019

Time : 10.00 AM TO 12.00 NOON
Max. Marks : 50

S-2019-3966

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw diagrams **WHEREVER** necessary.
- 4) Answer each section in the respective answer sheet only.
- 5) Answers written in the inappropriate answer sheets will not be assessed in any case.

SECTION – A (SAQ) 25 MARKS

Q.1 Attempt any **FIVE** out of **SEVEN**: **(5x5=25)**

- a) Describe the candidacy criteria for cochlear implant for children with hearing impairment.
- b) Describe the factors affecting outcome of cochlear implantation.
- c) Describe the mapping procedure used for children and adults implanted with cochlear implant.
- d) Compare ACE strategy with CIS + Strategy.
- e) Enlist the types of sound processor, electrode array and strategy as per manufacturer of cochlear implant.
- f) Draw a well labelled diagram of bone anchored hearing aid.
- g) Describe candidacy criteria for auditory brainstem implant.

SECTION – B (LAQ) 25 MARKS

Q.2 Attempt any **ONE** out of **TWO**: **(1x10=10)**

- a) Describe the various objective measurement of cochlear implant mapping procedure.
- b) Enlist the various speech perception test and audio logical test that can be used to assess benefit of implantable devices in children and adult.

Q.3 Attempt any **ONE** out of **TWO**: **(1x15=15)**

- a) Describe the presurgical assessment required for cochlear implantation, auditory brain stem implantation and middle ear implantation.
- b) Describe the surgical steps, risk factors and approaches used for cochlea implantation and auditory brainstem implantation.

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