

## PROVISIONAL ANSWER KEY

Question 16/2024/OL

Paper Code:

Category 337/2022

Code:

Exam: Clinical Audiometrician Grade II (NCA- SC)

Date of Test 22-02-2024

Department Medical Education

Question1:-According to inverse square law, the intensity reduces by \_\_\_\_\_ factor when the distance squares.

A:-1

B:-2

C:-0.5

D:-0.25

Correct Answer:- Option-A

Question2:-\_\_\_\_\_ frequency of a body or medium is referred to as the frequency at which it vibrates most easily.

A:-Peak frequency

B:-High frequency

C:-Low frequency

D:-Resonant frequency

Correct Answer:- Option-D

Question3:-Choose the right one among the statements given below that explain the given scenario.

You and your friend are scuba diving in the ocean.

Although your friend is just a few feet beneath the surface, already underwater, and you attempt to communicate by yelling, there is no response from him.

A:-The person under the water is having hearing impairment

B:-The voice encounters the impedance offered by the water which is few thousand times greater than that of air

C:-The voice encounters the impedance offered by the air which is few thousand times lesser than that of water

D:-The voice encounters the impedance offered by the air which is few hundred times lesser than that of water

Correct Answer:- Option-B

Question4:-0 dB SPL corresponds to \_\_\_\_\_.

A:-20  $\mu$ Pa

B:-10  $\mu$ Pa

C:-30  $\mu$ Pa

D:-5  $\mu$ Pa

Correct Answer:- Option-A

Question5:-According to the Auditory Behaviour Index given by Northern and Downs (1991), a one month-old baby responds to moderate level (40-60 dB HL) speech sound by \_\_\_\_\_.

A:-Eye Blink

B:-Eye widening

C:-Startling

D:-All the above

Correct Answer:- Option-D

Question6:-The function of middle ear in human auditory system is \_\_\_\_\_.

A:-Conducts sound to the inner ear

B:-Acts as a transformers

C:-Compensate the energy loss caused by impedance mismatch between outer and inner ear

D:-All the above

Correct Answer:- Option-D

Question7:-In adult, the resonant frequency of the ear canal and of the concha is \_\_\_\_\_ and \_\_\_\_\_ respectively.

A:-2500 Hz and 5000 Hz

B:-5000 Hz and 2500 Hz

C:-1000 Hz and 2000 Hz

D:-6000 Hz and 1500 Hz

Correct Answer:- Option-A

Question8:-The area of stapes foot plate is way smaller the effective are of the tympanic membrane. This difference in conductive mechanism contributes to a gain of \_\_\_\_\_ times in middle ear transformed action.

A:-12

B:-10

C:-17

D:-2

Correct Answer:- Option-C

Question9:-The function of labyrinth includes \_\_\_\_\_.

A:-Mechano-sensory transduction

B:-Localization

C:-Conduction of auditory stimuli

D:-Both 1 and 2

Correct Answer:- Option-A

Question10:-Which among the following statement is correct ?

A:-There are 1 row of outer hair cells and 3 rows of inner hair cells

B:-The scala media is filled with perilymph

C:-The auditory neurons innervate the inner hair cells through habenula perforata

D:-The tectorial membrane holds the organ of corti

Correct Answer:- Option-C

Question11:- I. The outer hair cells generate Oto-acoustic emission.  
II. The outer hair cells have ability to respond to low intensity sounds.

A:-Statement I is correct

B:-Statement II is correct

C:-Both the statements are correct

D:-Statement I is holds good only if statement II is correct

Correct Answer:- Option-C

Question12:-Ear canal collapse during pure-tone audiometry can lead to erroneous results. This collapse can be avoided through the use of \_\_\_\_\_.

A:-Supra aural headphones

B:-Bone vibrator

C:-Circumaural headphones

D:-Insert earphones

Correct Answer:- Option-D

Question13:-Myringitis is the inflammation of \_\_\_\_\_.

A:-External ear canal

B:-Tympanic membrane

C:-Middle ear

D:-Pinna

Correct Answer:- Option-B

Question14:-Average air conduction threshold of 60dB and an air bone gap of 30 dB indicates \_\_\_\_\_.

A:-Sensory neural hearing loss

B:-Conductive hearing loss

C:-Mixed Hearing loss

D:-Both 2 and 3

Correct Answer:- Option-C

Question15:-\_\_\_\_\_ does not results in conductive hearing loss.

A:-Anotia

B:-Otitis media

C:-Microtia

D:-Stenosis

Correct Answer:- Option-C

Question16:-The case history portion of the ASHA (1997) hearing disorders screening protocol for adults involves asking whether the individual has any of the following problems including \_\_\_\_\_.

A:-Hearing loss

B:-Unilateral hearing loss

C:-Sudden-onset or rapidly progressing hearing loss

D:-All of the above

Correct Answer:- Option-D

Question17:-High-risk register doesn't include which of the following ?

A:-Maternal infections

B:-NICU stay

C:-Postnatal infection

D:-OAE report

Correct Answer:- Option-D

Question18:-Which of the following physiologic tests are used for new born hearing screening ?

A:-TEOAE

B:-PTA

C:-Reflex decay

D:-All the above

Correct Answer:- Option-A

Question19:-In immittance screening, which of the following criteria refers to fail ?

A:-Tympanometric width that is  $< 250$  daPa

B:-Peak-compensated static acoustic admittance that is  $< 0.2$  mmho

C:-Negative tympanometric peak pressure (middle ear pressure) of less than  $-200$  daPa

D:-All the above

Correct Answer:- Option-B

Question20:-Shadow curve is an audiogram is caused by \_\_\_\_\_.

A:-Hearing loss

B:-Malingering

C:-Cross over

D:-Cross hearing

Correct Answer:- Option-D

Question21:-Collapsible ear canal in results in \_\_\_\_\_ while using supra-aural headphones.

A:-False Air-Bone Gap (ABG)

B:-Sensory neural hearing loss

C:-True conductive hearing loss

D:-All the above

Correct Answer:- Option-A

Question22:-TDH 49 is a \_\_\_\_\_ headphone.

A:-Supra aural headphone

B:-Circumaural headphone

C:-Insert headphone

D:-Bone vibrator

Correct Answer:- Option-A

Question23:-The loudspeaker output for 0 dB HL in the sound field, when listening with both ears, should be \_\_\_\_\_ for speech.

A:-14.5 dB SPL

B:-12 dB SPL

C:-25 dB SPL

D:-None of the above

Correct Answer:- Option-A

Question24:-The unit of audiometric intensity is \_\_\_\_\_.

A:-dB SL

B:-dB HL

C:-dB SPL

D:-dB UCL

Correct Answer:- Option-B

Question25:-According to JCIH, the universal newborn hearing screening should follow identification, diagnosis and intervention should be done at \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ months respectively.

A:-1, 3 and 6

B:-1, 4 and 8

C:-3, 6 and 12

D:-None of the above

Correct Answer:- Option-A

Question26:-Phonological processes refers to

A:-The adjustments made to the production of speech sounds during speech development

B:-The study of the grammatical structure of language

C:-The combination of speech sounds acceptable in a language

D:-The rules of language governing the meaning of words

Correct Answer:- Option-A

Question27:-The cranial nerve responsible for jaw movements is

A:-Facial nerve

B:-Accessory nerve

C:-Glossopharyngeal nerve

D:-Trigeminal nerve

Correct Answer:- Option-D

Question28:-A blend of two vowels within the same syllable is

A:-Plosive

B:-Affricate

C:-Diphthong

D:-Bilabial

Correct Answer:- Option-C

Question29:-By 4-6 months of age the speech development of a child involves

A:-Producing vegetative sounds

B:-Producing first word

C:-Producing more lip or labial sounds

D:-Producing more back consonants

Correct Answer:- Option-C

Question30:-Which of the following is not a language disorder ?

A:-Autism

B:-Cerebral Palsy

C:-Asperger's syndrome

D:-Intellectual disability

Correct Answer:- Option-B

Question31:-Study of speech sounds is known as

A:-Morphology

B:-Phonology

C:-Pragmatics

D:-Syntax

Correct Answer:- Option-B

Question32:-The extent to which an assessment test measures what it is supposed to measure is referred as

A:-Reliability

B:-Specificity

C:-Normative

D:-Validity

Correct Answer:- Option-D

Question33:-Which of the following is true in case of stuttering ?

A:-Twins have a higher prevalence of stuttering

B:-Females who stutter outnumber males

C:-Stuttering begins when children say their first word

D:-Stuttering does not vary with situation

Correct Answer:- Option-A

Question34:-The Broca's area is situated in the

A:-Temporal lobe

B:-Occipital lobe

C:-Parietal lobe

D:-Frontal lobe

Correct Answer:- Option-D

Question35:-Which of the following is not true in autism ?

A:-Loss of language and social skills

B:-Lack of pretend play behaviour

C:-Lack of or abnormal shift of attention

D:-No impairment in the ability to initiate conversation

Correct Answer:- Option-D

Question36:-Which of the following is an H-shaped laryngeal cartilage when viewed laterally ?

A:-Cricoid

B:-Thyroid

C:-Velum

D:-Arytenoid

Correct Answer:- Option-B

Question37:-Which of the following is not a symptom of resonance disorder ?

A:-Hypernasality

B:-Dysfluency

C:-Hyponasality

D:-Articulation errors

Correct Answer:- Option-B

Question38:-ALD is a test materials which stands for

- A:-Assessment of Linguistic Development
- B:-Assessment of Learning Disability
- C:-Assessment of Language Development
- D:-Assessment of Learning Difficulty

Correct Answer:- Option-C

Question39:-The peripheral nervous system consists of the following.

- A:-Brain and spinal cord
- B:-Muscles and cartilages
- C:-Nerves and ganglia
- D:-Meninges and CSF

Correct Answer:- Option-C

Question40:-The way in which the air stream is modified due to the interaction of articulations is referred as

- A:-Speed of articulation
- B:-Manner of articulation
- C:-Place of articulation
- D:-Quality of articulation

Correct Answer:- Option-B

Question41:-The psychological perception of frequency is

- A:-Intensity
- B:-Duration
- C:-Resonance
- D:-Pitch

Correct Answer:- Option-D

Question42:-One of the standardized assessment tool used to assess Autism is

- A:-REELS
- B:-ALD
- C:-CARS
- D:-SSI

Correct Answer:- Option-C

Question43:-GERD, which can cause a voice problem, refers to

- A:-Gastroesophageal reflux disease
- B:-Gastroenterology reflux disease
- C:-Gastroesophageal reflex disorder
- D:-Gastroesophageal retention disease



Correct Answer:- Option-A

Question44:-Which of the following is not an acoustic correlate of voice ?

A:-Optimal pitch

B:-Airflow rate

C:-Maximum phonation duration

D:-Pitch range

Correct Answer:- Option-B

Question45:-The type of cerebral palsy having the most common symptom of impairment in coordination and balance is

A:-Spastic cerebral palsy

B:-Flaccid cerebral palsy

C:-Ataxic cerebral palsy

D:-Athetoid cerebral palsy

Correct Answer:- Option-C

Question46:-False positive in screening assessment means

A:-Fail the screening but do not have a problem

B:-Pass the screening but have a problem

C:-Fail the screening and have a problem

D:-Pass the screening and do not have a problem

Correct Answer:- Option-A

Question47:-Mutational falsetto is otherwise known as

A:-Muscle tension dysphonia

B:-Functional aphonia

C:-Spasmodic dysphonia

D:-Puberphonia

Correct Answer:- Option-D

Question48:-The type of assessment wherein the goal is to determine an individual's level of achievement or skill in a particular area of communication is

A:-Norm-referenced assessment

B:-Screening assessment

C:-Criterion-referenced assessment

D:-Dynamic assessment

Correct Answer:- Option-C

Question49:-When there is motor weakness of only the legs, it is referred as

A:-Paraplegia

B:-Hemiplegia

C:-Triplegia

D:-Monoplegia

Correct Answer:- Option-A

Question50:-The ability of the brain to reorganize and modify functions and adapt to internal and external changes refers to

A:-Specialization

B:-Plasticity

C:-Synapsis

D:-Myelination

Correct Answer:- Option-B

Question51:-All are parts of a conventional hearing aid except

A:-Microphone

B:-Receiver

C:-Speech processor

D:-Amplifier

Correct Answer:- Option-C

Question52:-Indication for Bone Anchored Hearing Aid (BAHA) are all except

A:-Canal atresia

B:-Mixed HL

C:-SNHL

D:-Single sided HL

Correct Answer:- Option-C

Question53:-Which of this is not a cause of hyponasality ?

A:-Nasopharyngeal mass

B:-Velopharyngeal insufficiency

C:-Nasal Polypi

D:-None of the above

Correct Answer:- Option-B

Question54:-Conventional hearing aid can be advised in all except

A:-Conductive HL

B:-Presence of recruitment

C:-Mixed HL

D:-Presby acusis

Correct Answer:- Option-B

Question55:-Misarticulation of Sibilants is called as

A:-Dysglossia

B:-Infantile swallow

C:-Spoonerism

D:-Lisping

Correct Answer:- Option-D

Question56:-Early identification of hearing loss is by all except

A:-Behavioural audiometry evaluation

B:-OAE

C:-ABR

D:-Tone decay test

Correct Answer:- Option-D

Question57:-All are true of dysphonia plica ventricularis except

A:-Voice is produced by ventricular folds

B:-Voice is produced by true vocal folds

C:-Voice is rough and low pitched

D:-Can be psychogenic

Correct Answer:- Option-B

Question58:-Puberphonia-mark the wrong statement

A:-High pitched voice

B:-Emotionally immature

C:-Occurs in males

D:-Occurs in females

Correct Answer:- Option-D

Question59:-Best treatment for adductor dysphonia

A:-Voice therapy

B:-Voice therapy + Botulinum toxin injection

C:-Psychotherapy

D:-Section of recurrent laryngeal nerve

Correct Answer:- Option-B

Question60:-In functional Aponia-select the wrong statement

A:-Emotionally liable-Females 15-30 Yrs.

B:-VC in abducted position

C:-Poor cough reflex

D:-Psychotherapy

Correct Answer:- Option-C

Question61:-Stuttering can be prevented by all except

A:-Over reacting in early stages of speech development

B:-Psychotherapy

C:-Parental education

D:-Speech therapy

Correct Answer:- Option-A

Question62:-Conventional Hearing Aid-select false statement

A:-Acoustic feedback

B:-Spectral distortion

C:-Used in discharging ears

D:-Cosmetically unacceptable due to visibility

Correct Answer:- Option-C

Question63:-Candidacy profile for cochlear implants include all except

A:-No medical contraindication for surgery

B:-Inadequate cognitive function

C:-B/L severe to profound SNHL

D:-Family and social support towards habilitation

Correct Answer:- Option-B

Question64:-Reading an unknown text is \_\_\_\_\_ in cluttering than in stuttering.

A:-Worse

B:-Better

C:-Same

D:-No difference

Correct Answer:- Option-B

Question65:-Moderate hearing impairment means hearing loss in better ear is

A:-20-40 dB

B:-41-60 dB

C:-61-70 dB

D:-71-90 dB

Correct Answer:- Option-B

Question66:-The ear moulds impression made from open jaw position to closed jaw position has

A:-Poor acoustic sealing and good retention

B:-Good acoustic sealing and poor retention

C:-Good retention and good acoustic sealing

D:-No difference

Correct Answer:- Option-C

Question67:-FAPI stands for

A:-Functional Auditory Progress Index

B:-Functional Auditory Performance Indicators

C:-Functional Auditory Performance Index

D:-Functional Auditory Progress Indicators

Correct Answer:- Option-B

Question68:-The Midvas strategy proposed by Van Riper is for

A:-Misarticulation

B:-Dysarthria of speech

C:-Apraxia of speech

D:-Stuttering

Correct Answer:- Option-D

Question69:-Which is not an ALD (Assistive Listening Devices) ?

A:-Telecoil system

B:-Infrared system

C:-FM system

D:-Induction loop system

Correct Answer:- Option-A

Question70:-One approach which does not fit into motor based or linguistically based strategies in order to treat speech sound disorders

A:-Core vocabulary therapy

B:-Minimal pair contrast therapy

C:-Production training

D:-Multiple opposition therapy

Correct Answer:- Option-A

Question71:-S/Z ratio is an indirect index of

A:-Vital Capacity

B:-Laryngeal Airflow

C:-Nasalance

D:-Hoarseness

Correct Answer:- Option-B

Question72:-A group of phonemes in which each looks alike when spoken are

A:-Homophenes

B:-Visemes

C:-Homophones

D:-Both 1 and 2

Correct Answer:- Option-B

Question73:-Cavet is a test used to assess

- A:-Speech reading ability in children
- B:-Speech reading ability in adults
- C:-All the above
- D:-None of the above

Correct Answer:- Option-A

Question74:-Name the Kerala Government's free Cochlear implant scheme for hearing impaired children

- A:-Asvasa Kiranam
- B:-Snehapoorvam
- C:-Mittayi
- D:-Sruthitharangam

Correct Answer:- Option-D

Question75:-What is IEP ?

- A:-Individualised Educational Program
- B:-Inclusive Education Program
- C:-Integrating Education Program
- D:-All the above

Correct Answer:- Option-A

Question76:-According to the RPWD Act of 2016, who is considered as deaf ?

- A:-70 dB hearing loss in both ears
- B:-30 dB hearing loss in both ears
- C:-40 dB hearing loss in both ears
- D:-None of the above

Correct Answer:- Option-A

Question77:-\_\_\_\_\_ stated "Disability is an umbrella term, covering impairments, activity limitations, and participation restrictions".

- A:-National Trust
- B:-UNCRPD
- C:-Ministry of social justice and empowerment
- D:-World Health Organisation

Correct Answer:- Option-D

Question78:-Which disability is not included under the National Trust Act (1999) definition ?

- A:-Autism
- B:-Muscular Dystrophy
- C:-Cerebral Palsy

D:-Intellectual disability

Correct Answer:- Option-B

Question79:-SIPDA scheme is implemented by

A:-Ministry of Health and Family Welfare

B:-Ministry of Finance

C:-Ministry of Women and Child Welfare

D:-Ministry of Social Justice and Empowerment

Correct Answer:- Option-D

Question80:-A medical or hereditary disorder known as dwarfism causes an adult to be \_\_\_\_\_ cm or less in height.

A:-150

B:-147

C:-146

D:-145

Correct Answer:- Option-B

Question81:-The age limit for cochlear implantation under ADIP scheme is \_\_\_\_\_ in case of prelingual hearing loss.

A:-Between 1 year to 5 years

B:-Between 1 year to 3 years

C:-Between 5 years to 8 years

D:-Between 1 year to 10 years

Correct Answer:- Option-A

Question82:-\_\_\_\_\_ is the third level in auditory training.

A:-Awareness

B:-Identification

C:-Discrimination

D:-Comprehension

Correct Answer:- Option-C

Question83:-There are \_\_\_\_\_ paired and \_\_\_\_\_ unpaired cartilages in larynx.

A:-3, 3

B:-2, 3

C:-3, 4

D:-4, 5

Correct Answer:- Option-A

Question84:-\_\_\_\_\_ is a standardised test material to assess language in children.

A:-FDA

B:-ABA

C:-REELS

D:-MAT

Correct Answer:- Option-C

Question85:-Lateral sulcus in brain called

A:-Fissure of Rolando

B:-Interhemispheric fissure

C:-Central Fissure

D:-Sylvian Fissure

Correct Answer:- Option-D

Question86:-An electronic device used for measurement of hearing threshold

A:-Speech Audiometry

B:-Audiometer

C:-Hearing aid

D:-Tympanometer

Correct Answer:- Option-B

Question87:-Which of the following statements are correct about the Unique ID for Persons with Disabilities Project ?

1. The Project aims to create a National Database for the Persons with disabilities.
2. It aims to issue a UDID, that is, a Unique Disability Identity Card to each person with disabilities.
3. The persons with disabilities included in the project are based on RPWD Act, 2016.

A:-1 and 2 only

B:-1 and 3 only

C:-2 and 3 only

D:-All of the above

Correct Answer:- Option-D

Question88:-Which model of Disability viewed Disability as a deficiency residing in a person's body and/or mind ?

A:-Social model

B:-Human Right model

C:-Medical model

D:-None of the above

Correct Answer:- Option-C

Question89:-Which of the following statements are incorrect about Centrally Sponsored Schemes in India ?

1. Centrally Sponsored Schemes are funded directly by the central ministries/departments and implemented by the central government directly.



2. They mainly offer assistance on subjects in the union list.
3. These schemes are 100% funded by the Central Government.

A:-1 only

B:-1 and 2 only

C:-2 only

D:-All of the above

Correct Answer:- Option-D

Question90:-RBSK initiative of the government aims to

A:-Reduce maternal and infant mortality by promoting institutional delivery among pregnant women

B:-Aiming at early identification and early intervention for children from birth to 18 years to cover 4'D's

C:-Empower Adolescent girls 11-18 years through nutrition health care and life skills education

D:-Provide awareness about the health education to adolescent age children in rural areas

Correct Answer:- Option-B

Question91:-Counselling is a profession aims at

A:-Promote personal growth and productivity

B:-Provide a successful diagnosis in psychopathology

C:-Ensure that clients are on the correct medication

D:-Solely address behaviour

Correct Answer:- Option-A

Question92:-\_\_\_\_\_ play an important role in society as they provide social support, a sense of belongingness and opportunities for collaboration, and cooperation.

A:-Socialisation

B:-Institutions

C:-Communities

D:-Partnership

Correct Answer:- Option-C

Question93:-Which of these aren't mentioned in the PWD Act, 1995 ?

A:-Compulsory education

B:-Social security

C:-Early identification

D:-Non discrimination

Correct Answer:- Option-A

Question94:-Which of the following Scheme implemented by the Government of Kerala for free cochlear implant for children with Hearing Loss ?

A:-Tarang

B:-Sruthitharangam

C:-Sneha sparsham

D:-Snehapoorvam

Correct Answer:- Option-B

Question95:-International disability day celebrated on \_\_\_\_\_

A:-March 3rd

B:-December 3rd

C:-September 24th

D:-April 2nd

Correct Answer:- Option-B

Question96:-Which of the following health insurance schemes cover for Autism, Cerebral Palsy, Global Developmental Delay, and Multiple Disabilities ?

A:-Ayushman Bharat

B:-Janshree Bima

C:-Niramaya

D:-None of the above

Correct Answer:- Option-C

Question97:-Identify correct statement

1. Hearing aids are implantable device
2. Hearing aids are electronic device
3. Hearing aids are amplification device

A:-1 and 2

B:-2 and 3

C:-1 and 3

D:-All the above

Correct Answer:- Option-B

Question98:-Frequency range tested while doing air conduction testing in Pure Tone Audiometry.

A:-250 Hz to 8000 Hz

B:-1000 Hz to 8000 Hz

C:-250 Hz to 4000 Hz

D:-None of the above

Correct Answer:- Option-A

Question99:-Which of the following best describes teamwork ?

A:-Individuals working independently towards a common goal

B:-Collaboration and cooperation among team members to achieve a shared objective

C:-A competitive environment where individuals strive to outperform others

D:-Taking the initiative and seeking opportunities to contribute

Correct Answer:- Option-B

Question100:-What is the best quality of a good counsellor ?

A:-Good listener

B:-Good teacher

C:-Good speaker

D:-Good advocate

Correct Answer:- Option-A