Ansort of

ALL INDIA INSTITUTE OF SPEECH AND HEARING, MYSORE-06

Ph.D. Entrance Examination, 2024-25

(AUDIOLOGY)

7	Time: 2 Hrs 30 Minutes		Date: 12th November, 2025		
			Max.Marks:100		
		PART -	<u>- A</u>		
	Instructions:		[5	0*1=50 Marks]	
	1. This part contains 50) multiple-choice qu	estions; each question c	arries one mark.	
	2. Write your correct o	ption along with the	e question number in th	e Answer Booklet.	
	3. Do not overwrite the	options.			
01.	The germ layer from w	hich the inner ear dev	velops during the embryo	nic stage is	
	a) Ectoderm	b) Mesoderm	c) Endoderm	d) All three germ layers	
02.	The speech perception identification in childre		ernative picture set for as	sessing speech	
	a) Discrimination by identification of Pictures	b) WIPI	c) NU-CHIPS	d) Auditory Numbe Test	
03.	The inheritance pattern having a 50 % chance of		nd a carrier mother, with I	ooth daughters and sons	
	a) Y linked	b) X-linked dominant	c) Mitochondrial	d) X-linked recessive	
04.	_		om 10-15 years, which hase of a hearing aid or lack		
	a) CHILD	b) PEACH	c) TEACH	d) P-APHAB	
05.	The questionnaire for C children aged 6 years at	_	ch has 48 items listed und	er eight categories for	
	a) CHILD	b) CHAPPS	c) BMQ-R	d) APDQ	

06.	The function explained by the Lateralization-Vector theory (Jeffress, 1972) is				
	a) Temporal integration	b) Spatial perception	c) Binaural Fusion	d) MLD	
07.	The LiSN and Learn train	ning is used to train wh	nich deficits in children	with CAPD?	
	a) Dichotic	b) Prosodic	e) Temporal patterning	d) Spatial	
08.	Which of the following is procedure?	s NOT one of the key	step of Auditory memo	ry enhancement	
	a) Sketching	b) Listening	c) Coding	d) Writing	
09.	Interaural phase difference provides useful and unequivocal information about the location of				
	a) High Frequency	b) Mid frequency	c) Low Frequency	d) No dependent on the frequency	
10.	Temporal integration hap	ppens till what duration	of the signal?		
	a) 2sec	b) Less than 10 ms	c) 10-15ms	d) 200 ms	
11.	Which of these best desc relatively higher frequen	· · · · · · · · · · · · · · · · · · ·		the direction of	
	a) ITD	b) Diffraction effects produced by lower frequency signals	c) Diffraction effects produced by higher frequency signals	d) Head shadow effects produced by higher frequency signals	
12.	What occurs when a liste affected by the simultane			high frequencies is	
	a) Binaural interaction	b)Binaural summation	c) Binaural integration	d) Binaural interference	
13.	Which one of the follow	ing is NOT a store and	forward way of tele-he	ealth practice?	
	a) E-mail	b) Web based e- health patient service sites.	c) Video- conferencing	d) Multimedia	
14.	Which of the following i	s NOT designed as Mi	ddle-ear Implantable d	evice?	
	a) Vibrant soundbridge	b) Carina	c) Bone Bridge	d) Envoy Esteem	

15.	Which of the following is	NOT experienced as i	non-auditory perception	in ABI patients?
	a) Tingling sensation	b) Dizziness	c) Visual loss	d) Facial twitching
16.	Which of the following co Implant device?	onditions is NOT cons	idered as Hard failure in	n the Cochlear
	a) Damage of the integrated circuit	b) Seepage of fluid into the case	c) Short circuits	d) Harsh Noise
17.	In comparison to four-miprovides an improvement	-	-	e directional system
	a) 1 to 3 dB	b) 6 to 12 dB	c) -24 dB	d) >24 dB
18.	Which of the following co	olour damper reduces t	the maximum output of	the Custom Hearing
	a) White damper	b) Green damper	c) Red damper	d) Black damper
19.	As speech sound travel as distance by	way from the talker, the	ey loose amplitude for	every doubling of
	a) 3 dB	b) 6 dB	c) 9 dB	d) 12 dB
20.	A functional assessment s functioning in real world		-	on of their child's
	a) DIAL	b) TEACH	c) PEACH	d) MAIS
21.	Which of the following is conditions?	s the most robust phon	etic feature under mask	ed listening
	a) Voicing	b) Place of articulation	c) Duration	d) Affrication
22.	The use of recorded test is monitored live voice pres		crease in performance in	n comparison to
	a) 1%	b) 3%	c) 13%	d) 23%
23.	'A federal law that ensure appropriate public educat			
	a) IDEA	b) IEP	c) ICFDH	d) IFSP
24.	Epley Maneuver is used t	o treat		
	a) BPPV	b) Vestibular	c) Meniere's disease	d) Labyrinthitis

25.	Which of the following approaches are based on the notion that a general understanding of the entire message is important in speech reading?				
	a) Analytic approach	b) Synthetic approach	c) Finger Spelling Approach	d) Elaboration approach	
26.	The Gufoni Maneuver fo	or Apogeotropic Nystaş	gmus is also popularly o	called	
	a) Apiani Maneuver	b) Casani Maneuver	c) Yacovino Maneuver	d) Epley's Maneuver	
27.	An increased SP/AP ratio	o, a typical finding in M	Meniere's disease, can a	also occur in	
	a) Superior Semicircular Canal Dehiscence	b) Benign Paroxysmal Positional Vertigo	c) Wernicke's Encephalopathy	d) Posterior Inferior Cerebellar Artery (PICA) stroke	
28.	A Post-Auricular Muscle	(PAM) response is enl	hanced by		
	a) lateral gaze towards ear receiving auditory input	b) lateral gaze away from ear receiving auditory input	c) straight ahead upwards gazing	d) Straight ahead downwards gazing	
29.	For a stationary source of recording time, the backg about				
	a) 0.4 times	b) 1.4 times	c) 2.4 times	d) 3.4 times	
30.	The classification of the reference of long axis of		into longitudinal and to	ransverse utilizes the	
	a) Petrous bone	b) Mastoid process	c) Tympanic portion	d) Squamous portion	
31.	The genetic anomalies as	sociated with OPA1 ar	nd OTOF are encounter	ed in	
	a) Meniere's disease	b) Otosclerosis	c) Usher Syndrome	d) Auditory Neuropathy Spectrum Disorders	
32.	Which of the following is	s NOT a type of hypera	acusis?		
	a) Annoyance hyperacusis	b) Fear hyperacusis	c) Pain hyperacusis	d) Intolerant Hyperacusis	

33.	sample is	he test of choice for co	omparison among unce t	or more maepenaem
	a) Kruskal-Wallis test	b) Freidman test	C) Wilcoxon signed rank test	d) Independent sample t-test
34.	On Sensory Organizatio (vestibular) refers to the	•	ed Dynamic Posturograp	hy, the name VEST
	a) Condition 2 to Condition 1	b) Condition 3 to Condition 1	c) Condition 4 to Condition 1	d) Condition 5 to Condition 1
35.	The quick phases of nys form of	tagmus generated duri	ng vestibular and optoki	netic stimulation are a
	a) Saccades	b) Convergence	c) Divergence	d) Vestibulo-ocular reflex
36.	Which research design d Group A X Where 'X' represents ex	O		
	a) One-Group Pretest- Posttest Design	b) One-Shot Case Study	c) Single-Group Time-Series Design	d) A-B-A Single- Subject Design
37.	Activation of skin and s	weat glands causes arti	facts in the frequency ra	nge of
	a) 20-50 Hz	b) 10-500 Hz	c) 0.1-2 Hz	d) 1-50 Hz
38.	During ABR acquisition maximizes the amplitude	- -	.00 Hz with a filter slope	e of 12 dB/octave
	a) Wave I	b) Wave II	c) Wave III	d) Wave V
39.	In a patient with a traum LEAST LIKELY finding	 -	a transverse temporal bo	ne fracture, the
	a) Sensorineural hearing loss	b) Complain of vertigo	c) Facial nerve paralysis	d) Conductive hearing loss
40.	The most common form	of otitis media is		
	a) Adhesive Otitis Media	b) Serous Otitis Media	c) Acute Suppurative Otitis Media	d) Bullous Myringitis

a

41.	In the context of cochlean	non-linearity, the terr	n 'Negative damping' r	efers to
	a) Amplification of soft sounds	b) Slope of the apical side of tuning curve	c) Frequency selectivity	d) Slope of the basal side of the tuning curve
42.	The epidermal layer of ty to keep away from shed s	•	l external ear canal, wh	ich migrates outwards
	a) Keratinocytes	b) Chondrocytes	c) Fibrocytes	d) Microgliocytes
43.	The Kimura's membrane	is situated in the		
	a) Basilar membrane	b) Reticular lamina	c) Reissner's membrane	d) Tectorial membrane
44.	The electrical conduction of axon membrane of the	_	rather than diffusing a	long the entire length
	a) Axoaxonic transmission	b) Saltatory conduction	c) Homeostatic conduction	d) Axodentritic transmission
45.	The ratio of the characte curve 40 dB above chara	•	absolute bandwidth of t	he frequency tuning
	a) Q ₁₀	b) Q ₄₀	c) critical ratio	d) frequency ratio
46.	The primary neurotransm	nitter found in the effer	ent auditory nerve term	inal is
	a) GABA	b) Acetylcholine	c) Glutamate	d) Ephinephrine
47.	In case of Meningitis, the	e severe headache over	the entire head is expen	rienced because of
	a) meninges innervated by a cranial nerve and cervical nerves	b) cessation of neural activity in the cortical region	c) activation of sympathetic and parasympathetic nervous system due to inflammation	d) excitation of the pain receptor areas in the brain due to infection
48.	The RMS amplitude of a	sine wave with a peak	amplitude of 4 is	
	a) 3.14	b) 0.70	c) 2.82	d) 2.0
49.	An object has an initial reincreased by a factor of 4 frequency of the object w	and the mass is increa		
	a) 50 Hz	b) 100 Hz	c) 400 Hz	d) 800 Hz

- 50. The relationship between pitch in Mel scale and frequency is
 - a) Linear
- b) Non-linear
- c) Logarithmic
- d) Exponential

PART B

Answer any five questions, each question carries ten marks

[5*10=50 Marks]

- 1. Discuss the neurophysiology of localization.
- 2. Describe the auditory perceptual training used for a child with auditory closure deficits.
- 3. Which objective test are used for Hearing Aid fitting in children with hearing loss? Justify with evidence from Literature.
- 4. Explain the neurophysiological model used for the management of the tinnitus.
- 5. Enumerate about the effect of sound coding strategies on speech perception in Cochlear Implant users.
- 6. Describe the Pathophysiology of BPPV.
- 7. Discuss the controversies regarding the generators of various peaks of ABR.



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(AUDIOLOGY)-Answer Keys

1	Α	21	Α	41	Α
2	С	22	· C	42	Α
3	D	23	Α	43	D
4	D	24	Α	44	В
5	С	25	В	45	В
6	D	26	В	46	В
7	D	27	Α	47	Α
8	С	28	Α	48	С
9	С	29	В	49	В
10	D	30	Α	50	В
11	D	31	D		
12	D	32 ·	D		
13	С	33	Α		
14	C	34	D		
15	С	35	Α		
16	D	36	В		
17	В	37	С		
18	C	38	Α		
19	В	39	D		
20	С	40	В		

Any challenges against the above answer keys shall invariably be sent to the email ID-director@aiishmysore.in with the appropriate supporting documents in JPEG/PDF only on or before 13 11 25 till 5pm. No correspondence will be entertained after the stipulated date and time.

M. Purpost Director