

## ALL INDIA INSTITUTE OF SPEECH AND HEARING MANASAGANGOTHRI MYSURU 570 006

## **ENTRANCE EXAMINATION 2018**

M.Sc. (AUDIOLOGY)

Time	e: 100 mi	nutes		Max. Marks 100
Insti	uctions:	Answer all the questions		
		Each question carries on	e mark	
		Use ball point pen with b	lack ink	
		Do not overwrite		
shee	eate it by t). For ex	marking an 'X' in the box	adjacent t	nong the four alternatives given and to the correct answer (in the answer a given question, then indicate you
		a) b)	c) 🔀	d)
			**	
1.	The gai compres dB SPL	ssion ratio is 2:1. The output	B, knee po	point of compression is 50 dB SPI hearing aid for an input signal of 7
		0 dB SPL	c)	110 dB SPL
		5 dB SPL	d)	
2.		tery life (in hours) of a zine AH and a current drain of 6		ry of a hearing aid, with capacity of
	a) 72	66	c)	210
	b) 21	d) 6 cc. 1 2 cc 00	d)	126
3.	Calcula	te the dB SPL for 8,000 μPa	(where lo	$\log \text{ of } 2 = 0.3 \& \log \text{ of } 4 = .06)$
		dB SPL	c)	
	b) 42	dB SPL	d)	62 dB SPL
4.	If a sar micropl would b	none to digital signal, the r	used to conumber of	onvert the output of a hearing air sample values in a 10 ms segmen
			c)	900
	a) 80 b) 16		d)	
5.	Low co	herence function value at lo	w input le	evels of a hearing aid is due to
٠.		equency lowering	c)	
		rcuit noise	d)	

0.	audiograms is	W 1764 73	itive octaves in flat configuration of
	a) 5 dB		15 dB
	b) 10 dB	d)	20 dB
	NCE EXAMINATION 2618	ARTY	17
7.	Children who initially learn American S school are considered as Oddilla and I	Sign I	Language and later learn English a
	a) total communication users	c)	monolinguals
00)	b) bilingual	d)	contrived system users.
8.	A mandatory diagnostic test in o	case	of high risk factors such as
	hyperbilirubinemia or anoxia is	SHO	Fach question carries
	a) BOA	c)	OAE mion lied and
	b) VRA	d)	ABR wasyo ten qui
0			
9.115	It is necessary to sample the input sign	nal w	ith a minimum of two samples per
15:77	period of the sinusoid in a digital hearing	g aid,	in order to avoid manner and in problem
	a) quantization error	c)	digitization error
	b) aliasing error	d)	Nyquist error
10.	In an auditory/oral approach, the followi	ng coi	mbinations are acceptable
			oral spoken language, listening, &
	speechreading, listening, & use of		use of natural gestures; writter
	sign language		language
	b) oral spoken language, speech	d)	
-118	reading, listening, & use of natural	815 D	life gain of a hearing, aid is c
W i	gestures in tot be guined and to		
			dB SPL is
11.	The recommended reverberation time and	d sign	al-to-noise ratio in a class room are
	a) $> 0.4$ seconds; $< +15$ dB	c)	< 0.4  ms; > +15  dB
	b) $< 0.4 \text{ seconds}; > +15 \text{ dB}$	d)	< 0.4 seconds; < +15 dB
10 (	air battery of a hearing aid, with capacit		
12.	The volume enclosed in a HA 1 coupler a  a) 2 cc, 1 2 cc	and a	•
	u) 2 cc, 1.2 cc	c)	1.2 cc, 0.4 cc
	b) 2 cc, 0.4 cc	d)	6 cc, 1.2 cc - 001\$ 66
13.	To test for central auditory processing d	isorde	ers in a nationt with normal bearing
	sensitivity, the audiologist will	150140	aris in a patient with normal hearing
	a) increase the extrinsic redundancy	c)	increase the intrinsic redundancy
	b) decrease the extrinsic redundancy	d)	
	stated a to to the out reached or loss	u)	decrease the intrinsic redundancy
14.	Members of a Deaf Culture mainly include	de tho	se who langth of agoldensia
	a) have post lingual deafness	c)	have very profound hearing loss
	b) have prelingual deafness	d)	have learnt total communication
	0001 (b	)	Od I (d
	cinput levets of a bearing aid is due to		

15.	For consideration of binaural hearing aid hearing loss	ds fo	r an individual with asymmetrical
	a) the pure-tone average difference should be ≤ 15 dB between the	c)	the speech recognition scores should be $\leq 40\%$ between the
	b) the speech recognition scores	d)	the pure-tone average difference
	between the ears should be < 20%	u)	should be $\leq 40$ dB between the
	voltaboddin blad object to the cars should be < 2076		ears
	dt - Joseph Seitend of Cartest		b) greater spread of current
16.	Sarva Shiksha Abiyan (2010) provides u children aged	ısefu	l and appropriate education for all
	a) 4 to 12 years	c)	5 to 10 years the bis annied
	b) 6 to 14 years	d)	5 to 18 years
	gairngold (b		b) squejob (d
17.	Compared to the HA-2 coupler data, heari	ng ai	ds placed on children tend to have
	a) more gain, same output	c)	
	b) more output, same gain	d)	more gain, more output
18.	The electrode array of a cochlear implant	is loc	cated in the
10.	a) scala media	c)	scala vestibuli
	b) scala tympani	d)	promontory
	d) roading abilities	-)	b) qender of adult spouler
19.	The requirements for programming a digit	tal he	earing aid include
	a) HI-PRO, NOAH, NOAHlink,		
	programming cables		cables somaldomed (a)
	b) HI-PRO 2, hearing aid software,	d)	NOAHlink, HI-PRO,
	NOAH, programming cables		programming cables
	ended in Audifary Verbal Therapy		sit. I be following hierarchy is ric
20.	The process of hearing aid verification usi	ing re	eal ear measurements includes
	a) REUR, REAR, REIR, matching		REUR, REIR, matching target,
	target holen bombudz - ni		REAR
	b) matching target, REUR, REIR,	d)	REUR, matching target, REIR,
	REAR		REAR
	reing: d) auditory Cogmitive skills in	tuttju.	w violibus, (d
21.	The Real Ear Insertion Response (REIR)	is	
	a) REUR+REAR	c)	REAR-REOR
	b) REAR-REUR	d)	REUR-REAR
22	YOU I I I I I I I I I I I I I I I I I I I		voice is sounding yeary loud' then
22.	If the complaint by a hearing aid user is 'c		reduce gain in low frequencies for
	a) reduce gain in high frequencies for	c)	
	soft input	1)	loud input
	b) ask him/her to speak softer	d)	reduce gain in high frequencies
			for loud input
23.	High frequency enhancement in an earmo	old is	brought about by using a
23.	a) narrow sound bore	c)	vent
	b) damper	d)	horn
	-,	,	

24.	The	use of acoustic damper in an earmold		
		reduces the low frequencies	c)	reduces the peaks in the frequency response
	b)	reduces the length of sound bore	d)	reduces high frequencies
25.		cochlear implant, monopolar stimul	ation	requires lesser current levels than
	a)	lower electrode impedance	c)	higher electrode impedance
	b)	The state of the s	d)	lesser spread of current
26.		every decibel increase in input, an incing aid indicates	creas	e by two decibels in the output in a
	a)	compression	c)	expansion
	b)	squelch	d)	blooming
27.	Adn	ninistration of hearing aid outcome me	easur	es involve
	a)	validation	c)	pre-selection
	b)	verification	d)	Selection
28.	Spec	ech reading is not influenced by		1. The electrode array of a cockle
	a)	facial expression	c)	rate of speech
	b)		d)	reading abilities
29.	The	two sets /p, b, m/ and /t, d, n, l/ are ex	xamp	oles of
	a)	homophenes	c)	homophones
	b)	visemes	d)	fricatives
30.	The	following hierarchy is recommended	in A	uditory Verbal Therapy
	a)	auditory/Cognitive skills in a	c)	auditory sequencing;
		structured listening environment;	initi	Auditory/Cognitive skills in a
		Auditory/Cognitive skills in		structured listening environment;
		Conversation; Auditory		Auditory/Cognitive skills in
		sequencing		Conversation
	b)	auditory sequencing;	d)	auditory/Cognitive skills in a
		Auditory/Cognitive skills in	13	structured listening environment;
		Conversation; Auditory/Cognitive		Auditory sequencing;
		skills in a structured listening		Auditory/Cognitive skills in
		environment		Conversation
31.	Inte	rhemispheric activities stimulate		and help in
	a)	~~1.85( \$7 =\$2.54) BENGERADA ~. J [13] [1 ] BENGERADA	c)	corpus callosum; temporal lobe
		transfer of information	-,	stimulation
	b)	temporal lobe / interhemispheric transfer of information	d)	corpus callosum / Brocas area
		uansier of information		stimulation

32.	Speech tracking requires an individual to	)	
	a) respond verbatim; Use communication strategies; Use articles in magazines, newspaper	е	respond verbatim; Avoid using communication strategies; Use articles in magazines, newspapers
	articles in magazines, newspapers or story books.	5	or story books.
	b) respond approximating the meaning; Use communication strategies; Use articles in	1	respond verbatim; Use communication strategies; Use dialogues.
	magazines, newspapers or story books.		al habanamaoya ah zi tahW - Eb
33.	The word-pairs /which-witch/ and /son-s		
	a) homophenes		both homophenes and
	b) visemes	d)	both homophenes and homophones
2.4	gedo (o	41	a) tone binst
34.	In a synthetic method of speechreading, a) perceive each phoneme of the		
	message being transmitted		
	b) not use intuitive thinking	d)	perceive the meaning of what is
			being transmitted
35.	When providing auditory training for a		
	loss, the consonant discrimination that y		uld start with is //s-∫/
	a) /p-m/ <sub>real oldsaw Borottill</sub> (b) J b) /t-r/	d)	/t-1/
	and being a sub-bench a support of	reller	47 Inc. process that causes bair
36.	Teaching a child with APD to 'ascribe h	is fail	ure to insufficient effort', is a part
	a) discourse cohesion device	c)	reciprocal teaching
	b) attribution training	d)	schema induction
37	The test that does not elicit conditioned	respon	of all bear remained algers. At the second
37.	a) BOA	_	TROCA
	b) VRA saub salar (b)		play audiometry
20	Which of these is not a high risk factor	for cor	ngenital hearing loss as per the ICIH
38.	(2007) position statement?	ioi coi	AH (000#-000)
	a) rubella ser 0008-0004 (b	c)	
			hearing loss
	b) hyperbilirubinemea	d)	otitis media
39.	If tympanometry is used as a screening	test, fa	ilure criteria is
57.	a) greater than 250 daPa width	c)	greater than 150 daPa width
	b) greater than 200 daPa width	d)	greater than 100 daPa width
40.	The inner ear is developed from		<ol> <li>Acoustic trauma emises the dep at actin</li> </ol>
40.	a) I pharyngeal arch	c)	
	b) II pharyngeal arch	d)	auditory placodes

41.	The	'eye blir	nk responses' to lou	d sounds seen	in infants is o	called	
	a)	ABR	communication		Moro reflex		
	b)	COR		,	APR		
				,		on story boo	
42.	Wh	ich of the	ese is not a mandato	ry test in hear			e?
	a)	OAE	communication		immittance		
		ABR		-)	both a & b		
	,				newspapers		
43.	Wh	at is the	recommended leve				hildren
	usin	g pure to	ne audiometry?	i for hearing	screening in	school-going (	illidicii
	a)	20 dBH	II. To soldine so and	Amis-mos C)	30 dBHI		
	b)	30 dBH	L semulgamod (	d)			
bus		zamerigo	rtioi! itself (	b	10 dBIID		
44.	The	stimulus	recommended for	hearing scree	ning using AF	RR is	
	a)	tone bu	rst	c)	chirp	710 13	
			specelireader <b>a</b> erds	(6 ) (62	tone nin		
	BHOTT	76 3		o of the c	ach phonem		
45.	Whi	ich of the	se is not a subtype				
	a)	decodir					
	b)		ng imamat aniod	d)		unig	
	-)		-8	u)	megration		
46.	The	stimulus	used in Auditory R	esponse Crad	le is violibus		
	a)	filtered	noise at 85 dBSPL	v specified c)	filtered nois	e at 65 dRSDI	
	b)	filtered	warble tone at 85 d	BSPL d)		ble tone at 65 d	RSDI
			Mah (	(a)	intered war	ore tone at 05 u	DOLL
47.	The	process	that causes hair co	ells to become	e enlarged du	e to vesciculati	ion and
	vacu	olization	in the cytoplasm c	ausing rupture	in noise indu	ced damage is	Ton and
	a)	apoptos	is		necrosis	eca damage is	
	b)			,	scar formati	on	
		(1)		5	garnier	neimdrus (c	
48.	A s	ingle nu	mber used to exp	ress the over	-all noise ab	sorbing efficie	ncv of
*	acou	istic mate	erial is				
	a)	noise re	duction coefficient vel correlate	c)	noise reduct	ion rating	
	b)	noise le	vel correlate	d)	noise dose	Ton ruting	
	15.3				noise dose		
49.	The	frequenc	y band in the cochle	ea that is most	affected by n	nise exposure i	9
	a)	1000-40	000 Hz	(2	250-3000 H	z homzog (700)	3
	b)	3000-60	000 Hz			Iz allocher (i	
				۳)	1000 00001	12.	
50.	In a	success	ful hearing conserv	vation program	m the monit	oring audicora	me for
	facto	ry worke	ers exposed to occup	pational noise	must be done	oring addiogra	1115 101
	a)	annually	failure offerin is	croing test.	monthly		
	b)	quarterly	y / hadi relegig (	d)	once in two	vears	
	dilla	W . Tabi	y ( nadi reineng ( ) Mi nadi reineng Hill	) ittle	200 daPa w	istly aptrong to	
51.	Acou	ustic trau	ma causes the depol	ymerization of	of		
	a)	actin		c)	myosin		
	b)	prestine		d)	plasma		
				,	•		

52. 25 b	a) moderate deemphasis on high frequency		기계 가장 기계를 통해야 되었다면 하면 하면 어린다면 하는데 가장 하는데 되었다면 되었다면 하는데 되었다면 하는데 되었다.				
	b) slight deemphasis on high frequency	d)	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				
53.	In a hearing aid with output compression,	the v	volume control				
	a) affects gain and MPO, but not knee-point						
	b) affects knee-point, gain and MPO	d)	affects knee-point and MPO, but not gain				
54.	The primary goal for using a large area FM	/ lis	tening device is to				
larip	a) provide favourable SNR	c)	provide high frequency amplification				
	b) provide frequency loweing	d)	provide open captioning				
55.	The type of earmold used with IROS hear	ing a	id is				
	a) shell mold	c)	open mold				
	b) occluding mold	d)	standard mold				
56.	Candidates for a totally implantable middle implant hearing aid include						
	a) moderate conductive hearing loss	c)	moderately-severe sensorineural hearing loss				
	b) profound mixed hearing loss	d)	steeply sloping sensorineural hearing loss				
57.	The condition in which loudness of a cont	inuo	us tone dies out completely is				
07.	a) threshold tone decay	c)	loudness adaptation				
	b) recruitment	d)	decruitment				
58.	The Auditory Fusion Test - Revised is des	igne	d to measure				
	a) spectral resolution	c)	temporal resolution				
	b) intensity resolution	d)	frequency discrimination				
59.	In SISI-gram, abscissa and ordinate is used	d to	represent				
	a) frequency and SISI scores respectively		다 마음없다면 하는 경험하다가 아버린다면서 전기를 먹는 것 같아. 그는 것이 없는 것이 없는 것이다.				
	b) intensity and SISI scores respectively	d)	frequency and intensity respectively				
60.	Bekesy Type I pattern is seen in ears with						
	a) cochlear and retro-cochlear	c)	normal hearing and conductive pathology				
	b) Normal hearing and retro-cochlear pathology	d)	conductive and retro-cochlear pathology				
	· The figure 12		- material desirement (1)				

01.		ing problem is termed as	ecino	disorder and correctly identified as
	a)	sensitivity	a)	false positive vangupan
	-	specificity sigms laups to data	c) d)	false negative
	U)	specificity	a)	raise negative
62.		ich of these frequencies is not teste	d in	hearing screening of school going
		dren using pure tone audiometry?		oo indino una pie Sungau e ui - cc
	a)	1 500 Hz	c)	2000 Hz (100 Hz)
	b)	1000 Hz	d)	4000 Hz
63.	Moi	naural loudness balance test is designe	ed to	administer in cases with
	a)	monaural hearing loss having		bilateral hearing loss having
		normal or near normal hearing at	-)	normal or near normal hearing at
		least at one frequency		least at one frequency
	b)	monaural hearing loss having	d)	
	. 0)	equal hearing loss at all	u)	
		frequencies loss at all		hearing loss at all frequencies
64.	In	as no moth of towns of the unit 11.3	OSI,	55. The type of earmold used with
04.		es-no method, tones are presented us	_	le
	a)	ascending approach	c)	bracketing approach
	b)	descending approach	d)	fixed level
65.	The	graph in which both sensitivity and sp	pecif	icity can be expressed is called
	a)	receiver operating characteristic	c)	psychometric function curve
		curve 2201 unincod		
	b)	roll over phenomena	d)	sensitivity curve
66.	The	tuning fork test in which the result is	evni	ressed in terms of time is
	a)	Rinne	c)	Weber
	b)	Bing and Islands seembled 1960.	d)	Schwabach of blodeswill to
	U)	deemataneest (b	u)	Insertiusse (d
67.	The	tuning fork test in which examiner a	lterna	ately closes and opens the ear canal
	with	a finger is		331 - 1801 DOISH I ÁIGIRDHA SUIL - ARC
	a)	Rinne Hullow of Information (5)	c)	Weber Hulliam Islands 4.6
	b)	Bing How Wand Park (b	d)	Schwabach
68.	Mos	st ruptures caused by penetrating object	rts ar	e situated in the
		posterior portion of the ear drum	c)	anterior portion of the ear drum
	b)	inferior portion of the ear drum		
	mlur	page you on paid to some	d)	superior portion of the ear drum
69.	The	unit of loudness is		respectively
	a)	decibel	c)	phon
	b)	mel	d)	sone some some some some some some some som
	oubin	thear c) sound hearing and o	0000	olor bas reasolusos (a
70.	The	condition in which eardrum can be se	en m	oving in and out during respiration
	is			bj Nonnal hearing and refe
	a)	perforated eardrum	c)	senile eardrum
	b)	retracted eardrum	d)	patulous Eustachian tube

/1.	As the frequency increases, mas	s reactance
	a) fluctuates	c) increases
	b) decreases	d) does not change
72.	As the stimulus frequency increa	uses wave V latency of ABR
,	a) increases	c) does not change
	b) fluctuates	d) decreases
	b) Huctuates	d) decreases
72	So Ast a Ri Nalotheres	(b) (818)
73.		system for high frequency tympanograms is
	a) Vanhuyse (1975)	c) Carhart (1951)
	b) Jerger (1978)	d) Tillman (2000)
74.	The process of rejecting the sign	als that are similar across two electrodes is called
	a) filtering	c) common mode rejection
	b) averaging	d) epoching
	o) averaging	(b) opening
75.	In humans, SOAEs are usually p	present in the frequency range of
	a) 1000-3000 Hz	c) 3000-5000 Hz
	b) 500-1000 Hz	d) 500-1500 Hz
	b) 300-1000 Hz	d) 300-1300 Hz
76.	At 678 Hz probe frequency th	e most prevalent type of tympanogram is
70.	a) 3B1G	c) 3B3G
	b) 1B1G	d) 5B3G
77.	The caloric test assesses	
	a) semi circular canals	c) utricle
	b) saccule	d) vestibular nerve
78.	Among the following stimuli	acoustic reflex thresholds are lowest for
/0.		
	a) 500 Hz pure tone	. ,
	b) broad band noise	d) 4000 Hz pure tone
79.	While recording ABR, the stir	nulus artifacts are more for
	a) head phones	c) insert ear phones
	b) bone vibrator	d) button receivers
00	In 10 20 greaters might tomore	al lobe is represented by
80.	In 10-20 system, right tempora	
	a) C3	c) C4
	b) T4	T3
81.	Study of distribution and det	erminants of health related states or events in a
	specified population is	
	a) Semiotics	c) Ethnography
	b) Anthropology	d) Epidemiology
	o) Anthropology	(b) -/ -F
82.	Given $F0 = 300 \text{ Hz}$ the wave	length of a sound wave in air is
02.	a) 11.1 m	c) 0.11 m
	b) 11 m	d) 1.1 m
	171 1 1 1 111	4) 1.1 111

83.	Human Resource Development (HRD) in the context of persons with disability is based on					
	a)		2)	halanaad huus 2000 at 101:		
	b)	empathy for persons with disability cost-cutting for labour	c) d)	balanced human resource policy democratic policy		
84.	The	rollover index is derived from				
	a)	SRT	c)	SNR50 zsimitsuff (d		
	b)	SIS	d)	comfortable levels		
85.	NBS	S-9A is used to calibrate		- a) Vanbuyse (1975)		
	a)	headphones	c)	speakers (8384) mass 1 /4		
	b)	bone vibrator	d)	sound level meters		
86.	NILL	-6 test consists of		ze: the process of rejecting the sign		
80.			- )			
	a)	spondees	c)	sentences		
	b)	phonemically balanced words	d)	paired words		
87.	RET	FLs are used in the calibration of		a) 1000-3000 Hz		
	a)	headphones	c)	insertphones (d		
	b)	bone vibrators	d)	speakers		
		ar mergonagmyr to polyt motestam is		/6. Al 6.8 Hz probe frequency, ti		
88.	Ran	nsay Hunt syndrome is		Oldic (t.		
	a)	herpes zoster infection of geniculate ganglion	c)	infection of Vagus ganglion		
	b)	infection of trigeminal nerve	d)	lateral rectus paralysis		
89.	The	task involved in Lexical Neighborhoo	od To	est is altropas (d		
	a)	awareness	c)	recognition		
	b)	discrimination discrimination		detection		
90.	Гће С	ridu Chat syndrome is a		b) broad band noise		
	a)		c)	limb abnormality		
	b)	disorder of inner ear	d)	congenital abnormality of larynx		
91.	Grad	lenigo's syndrome has all triads excep	ot			
	a)	external rectus palsy	c)	persistent ear discharge		
	b)	retro-orbital pain	d)	stridor		
92.	The	frequently used 5-point Lickert-type r	entin	a good a sourcists of		
	a)	nominal scale				
	b)	ordinal scale	c) d)	interval scale ratio scale		
202			,			
93.	Whe	n degrees of freedom is very large, th	e dis	tribution of 't' is virtually		
	a)	exponential	c)	uniform zgologoullaz (d		
	b)	normal state of a sound beauty state of a sound beauty state of a sound beauty state of the soun	d)	binomial		
94.	A st	atement that states that "ony diffa	20 -1	agament on the still fell of		
	grou	atement that states that "any difference ps is due to chance and sampling error	rs" is	oserved on the post tests of the two		
		null hypothesis	c)	alternative hypothesis		
	b)	sampling hypothesis	4)	error hypothogia		

95.	The sphincter at the oral opening is the		
	a) lips	c)	cheeks
	b) nostrils	d)	mandible
96.	Meckel's cartilage and Reichert's cartilage	e giv	re rise to
1.0	a) cochlea	c)	auditory nerve
	b) utricle and saccule	d)	ossicles
97.	The test preferred for hearing threshold es	tima	tion in infants aged 9 months is
	a) BOA	c)	SRT
	b) VRA	d)	Conditioned play audiometry
98.	Any event which increases the probabili response is called	ty th	
	a) learning	c)	punishment
~	b) reward	d)_	reinforcement
99.	Artificial mastoid is a replication of		
	a) acoustic impedance of the human head	c)	acoustic impedance of the humar mastoid
	b) mechanical impedance of the	d)	mechanical impedance of the
	human mastoid		human head
100.	The sound pressure level and the frequer	ісу о	f the tone given as input to hearing
	aid to find out the equivalent input noise a		
	a) 60 dB SPL at 1000 Hz	c)	
	b) 60 dB SPL at 1600 Hz	d)	65 dB SPL at 1600 Hz