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Maximum: 100 marks

Time: 1 hour and 15 minutes

٠	(A)	ument used to give electric shock Pacemakers	(B)	Defibrillator
		Holter monitor	(D)	None of these
	(C)	Holter monitor	(D)	Note of these
	The cover	ing of Lungs :		
	(A)	Pericardium	(B)	Peritonium
	(C)	Pleura	(D)	Plasma membrane
3.	Recording	of Heart sound is called :		
	(A)	Electrocardiography	(B)	Electromyography
	(C)	Electroencephalography	(D)	Phonocardiography
١.	Right atr	ial hypertrophy is also called :		
	(A)	P-Pulmonale	(B)	P-mitral
	(C)	ASD	(D)	VSD
5.	Smallest	Ear Ossicle :		
	(A)	Malleus	(B)	Stapes
	(C)	Cochlea	(D)	Incus
3.	In which	year William Einthoven got the	Nobel prize f	for his contributions in ECG?
	(A)	1903	(B)	1934
	(C)	1906	(D)	1924
7.	In Transi	stor Biasing rule, Emitter-Base	junction is a	lways:
	(A)	Forward bias	(B)	Reverse bias
	(C)	Forward-Reverse bias	(D)	None of these
8.	The part	of the middle ear cavity above th	ne level of ty	mpanic membrane is called:
	(A)		(B)	Mesotympanum
	(C)	Hypotympanum	(D)	Epitympanum

9.	The foot	plate of Stapes is fixed into:		
	(A)	Round window	(B)	Oval window
	(C)	Bony labyrinth	(D)	Membranous labyrinth
10.	Which de	vice convert ionic potentials into	electronic p	otentials?
	(A)	Transducer	(B)	Transistor
	(C)	Electrons	(D)	Electrodes
11.	Reason fo	or 'M'shaped P-wave seen in Lead	I & Lead I	T:
	(A)	Right atrial hypertrophy	(B)	Left atrial hypertrophy
	(C)	Aortic stenosis	(D)	Mitral stenosis
12.	Differenc	e between Air conduction thresho	old and Bon	e conduction threshold is called :
	(A)	ABC Gap	(B)	ABSR
	(C)	ABLB	(D)	AB Gap
13.	The loss o	of rhythmical activity of the Hear	t is called :	
	(A)	Cardiac arrest	(B)	Arrhythmia
	(C)	Bradycardia	(D)	Tachycardia
14.	Self recor	ding audiometry is known as :		
12.	(A)	Bekesy Audiometry	(B)	DCEDA
	(C)	Speech Audiometry	(B) (D)	BSERA Pure tone Audiometry
15.	The surface			-7500 % 479
10.		rsally accepted colour code for Ri Red		
	(A) (C)	Black		rellow
	(0)	DIACK	(D)	White
16.	Which is t	he fluid seen inside bony labyrin	th?	
	(A)	Perilymph	(B)	Endolymphatic sac
	(C)	Endolymph	(D)	Cortilymph
17.	Natural P	acemaker of Heart :		
	(A)	SA node	(B)	AV node
	(C)	Right ventricle	(D)	Left ventricle

18.	The audible continuous vibrations produced inside the heart for a long time in each cardiacycle:				
	(A)	First heart sound	(B)	Murmur	
	(C)	Second heart sound	(D)	Heart beat	
19.	In solar co	ells which effect is used :			
	(A)	Thermoelectric effect	(B)	Photoelectric effect	
	(C)	Piezo-electric effect	(D)	Peltier effect	
20.	Middle ea	r pressure can be measured by :			
	(A)	Audiometry	(B)	Tympanometry	
	(C)	Speech audiometry	(D)	Pure tone audiometry	
21.	What is t	he emergency first aid given in mas	sive cardi	iac arrest?	
	(A)	CPR	(B)	Treadmill test	
	(C)	ECG	(D)	None of these	
22.	Which Ty	mpanogram indicates the presence	of fluid ir	the middle ear?	
	(A)	Type B	(B)	Type C	
	(C)	Type D	(D)	Type A	
23.	Cardiac o	utput =× Heart r	ate.		
	(A)	Blood volume	(B)	Stroke volume	
	(C)	Venous return	(D)	Pulse rate	
24.	The volu	ne of air remaining in the lung ever	n after a f	orcible expiration?	
	(A)	Tidal volume	(B)	Residual volume	
	(C)	Total lung capacity	(D)	Expiratory reserve volume	
25.	In which	signal, 1mv is equal to 10mm?			
	(A)	Standardization signal	(B)	Under Standardization signal	
ii.	(C)	Over Standardization signal	(D)	Critical damped signal	
26.	In which	test the patient's ability to hear an	d underst	and speech is measured?	
	(A)	Bekesy Audiometry	(B)	Speech audiometry	
	(C)	Impedance Audiometry	(D)	Tympanometry	

27.	While tal	king ECG which Lead	is placed on the	5 th]	eft intercostal space at mid clavi	cular
	(A)	V_1		(B)	V_2	
	(C)	V_6	(0)	(D)	V_4	
28.	The move	able bone in skull :				
	(A)	Maxilla		(B)	Mandible	
	(C)	Sphenoid	ma.	(D)	Ethmoid	
29.	The space	e in which heart is situ	ated:			
	(A)	Sternum	(d)	(B)	Intercostal space	
	(C)	Pleural space	(0)	(D)	Mediastinum	
30.	Unit of F	requency:				
	(A)	Decibel	((B)	Farad HYO (A)	
	(C)	Hertz	(D)	(D)	Ampere	
31.	Which is	the objective test for he	earing loss particul	larly	used in children?	
	(A)	Impedance Audiomet	ry ((B)	ABC test	
	(C)	Weber test	(I) ((D)	Rinne test	
32.	Which de	afness results from def	ective function of t	he c	ochlea or auditory nerve?	
	(A)	Sensory neural deafn		B)	Conductive deafness	
	(C)	Mixed deafness	(D)	Mild deafness	
33.	Who did f	irst heart transplant?				
	(A)	Masson sones		B)	Augustus Waller	
	(C)	Rene Favaloro	(0)	D)	Christian Bernard	
34.	Which of	the following is correct	on the basis of Ein	tho	ven Triangle?	
		Lead I+ Lead III = Le			Lead I + Lead II = Lead III	
	(C)	Lead II + Lead III = I			All the above	
35.				re fo	orm?	
	(A)	Extrinsic semiconduc	No.	B)	N-type semiconductor	
	(C)	Intrinsic semiconduct	or (D)	P-type semiconductor	

36.	In which ventricle?	circulation blood flows from	the Right ver	ntricle through the Lungs to the	e left
	(A)	Systemic circulation	(B)	Portal circulation	
	(C)	Pulmonary circulation	(D)	Coronary circulation	
37.	Which ele	ctrode is commonly used to rec	ord the unipol	ar chest lead?	
	(A)	Limb electrode	(B)	Suction cup electrode	
	(C)	Micro electrode	(D)	Skin surface electrode	
38.	The cover	ing of neuron :			
	(A)	Myelin sheath	(B)	Axone	
	(C)	Axolemma	(D)	Synaptic knob	
39.	The time	interval between the beginning	g of QRS comp	lex to the end of T wave :	
	(A)	P-R Interval	(B)	Q-T Interval	
	(C)	QRS Interval	(D)	PR segment	
40.	The closu	re of which valve produce the s	second heart s	ound?	
	(A)	Semi lunar	(B)	Mitral	
	(C)	Tricuspid valve	(D)	Pulmonary valve	
41.	First 7 pa	irs of ribs are called :			
	(A)	False ribs	(B)	A typical ribs	
	(C)	True ribs	(D)	Typical Ribs	
42.	The space	e between lungs :			
	(A)	Manubrium	(B)	Xiphoid process	
	(C)	Thoracic cage	(D)	Mediastinum	
43.	Which ce	ll organelle is known as suicid	al bag?		
	(A)	Lysosome	(B)	Mitochondria	
	(C)	Ribosome	(D)	Golgi complex	
44.	Anatomic	cal term 'lateral' means :			
	(A)	towards the midline	(B)	front of the body	
	(C)	away from the mid line	(D)	back of the body	

Which va	live connects Right atrium and righ	t ventricle	e?
(A)	Tricuspid Valve	(B)	Mitral Valve
(C)	Semilunar	(D)	None of these
The num	ber of bones in adult human body :		
(A)	919	(B)	206
(C)	202	(D)	216
Duration	of cardiac cycle :		
(A)	0.01 S	(B)	0.6 S
(C)	0.10 S	(D)	0.8 S
Tachycar	dia means :		
(A)	Pulse rate above 60 b/mt	(B)	Pulse rate below 60 b/mt
(C)	Pulse rate above 100 b/mt	(D)	Pulse rate below 100 b/mt
Which wa	ve is produced due to atrial depolar	rization?	
(A)	Q-wave	(B)	T-wave
(C)	P-wave	(D)	U-wave
In a parti	cular lead all the signals obtained v	vill be inv	erted. Identify that lead :
(A)	aV_R	(B)	aV_L
(C)	aV_F	(D)	Lead - I
An electro		nt of hear	ing loss:
(A)	Speech Audiometry		Hearing Aid
(C)	Tympanometry	(D)	Audiometer
Which cha	amber of the heart has thickest wall	ls?	
(A)	Right Atrium		Right Ventricle
(C)	Left Atrium	(D)	Left Ventricle
In which a	area of brain the auditory centre is l	located?	
(A)	Occipital lobe		
(B)	Temporal lobe just below the longi	tudinal fi	ssure
(C)	Broca's area		
(D) F	ront part of the Temporal lobe		
	(A) (C) The num (A) (C) Duration (A) (C) Tachycar (A) (C) Which wa (A) (C) In a parti (A) (C) An electro (A) (C) Which cha (A) (C) Uhich cha (A) (C) Uhich cha (A) (C) Uhich cha (A) (C)	(A) Tricuspid Valve (C) Semilunar The number of bones in adult human body: (A) 212 (C) 202 Duration of cardiac cycle: (A) 0.01 S (C) 0.10 S Tachycardia means: (A) Pulse rate above 60 b/mt (C) Pulse rate above 100 b/mt Which wave is produced due to atrial depolation (A) Q-wave (C) P-wave In a particular lead all the signals obtained via (A) aV _R (C) aV _F An electronic device used for the measurement (A) Speech Audiometry (C) Tympanometry Which chamber of the heart has thickest wall (A) Right Atrium (C) Left Atrium In which area of brain the auditory centre is (A) Occipital lobe (B) Temporal lobe just below the longing the content of the longing the longin	(A) Tricuspid Valve (C) Semilunar (D) The number of bones in adult human body: (A) 212 (B) (C) 202 (D) Duration of cardiac cycle: (A) 0.01 S (C) 0.10 S (D) Tachycardia means: (A) Pulse rate above 60 b/mt (C) Pulse rate above 100 b/mt (D) Which wave is produced due to atrial depolarization? (A) Q-wave (B) (C) P-wave (D) In a particular lead all the signals obtained will be inv (A) aV _R (B) (C) aV _F (D) An electronic device used for the measurement of hear (A) Speech Audiometry (B) (C) Tympanometry (D) Which chamber of the heart has thickest walls? (A) Right Atrium (B) (C) Left Atrium (D) In which area of brain the auditory centre is located? (A) Occipital lobe (B) Temporal lobe just below the longitudinal file. (C) Broca's area

54.	The first	heart sound resemble for th	e word :		
	(A)	DUP	(B)	Murmur	
	(C)	LUBB	(D)	Pulse	
55.	Which mu	ascle contraction give rise to	an acoustic refle	x?	
	(A)	Stapidial	(B)	Utricle	
	(C)	Saccule	(D)	Vestibule	
56.	From whi	ch chamber of the heart Ao	rta arises?		
	(A)	Right Atrium	(B)	Right Ventricle	
	(C)	Left Atrium	(D)	Left Ventricle	
57.	Angle of I	ouis corresponds to which	rib?		
	(A)	1st	(B)	3rd	
	(C)	2^{nd}	(D)	5 th	
58.	The part	of the brain which maintain	ns body balance :		
	(A)	Cerebrum	(B)	Cerebellum	
	(C)	Hypothalamus	(D)	Medulla	
59.	Which of	the following terms mean th	he insertion of a c	atheter in to a chamber of heart?	
	(A)	Cardiac catheterization	(B)	CPR	
	(C)	Holter monitoring	(D)	ICU monitoring	
60.	Which se	parate external ear from the	e middle ear?		
	(A)	Semicircular canal	(B)	Tympanic membrane	
	(C)	Oval window	(D)	Round window	
61.	Location	of SA node :			
	(A)	Right Ventricle	(B)	Right Atrium	
	(C)	Left Atrium	(D)	Left Ventricle	
62.	The centr	al part of the bony labyrint	h:		
	(A)	Vestibule	(B)	Semicircular canal	
	(C)	Cochlear dud	(D)	Modeolus	

63.	The only	artery which carry in	pure blood :		
	(A)	Aorta		(B)	Coronary artery
	(C)	Pulmonary vein		(D)	Pulmonary artery
64.		the heart rate, if the and the paper speed		mall b	oxes between two successive R wave
	(A)	50 b/m		(B)	15 b/m
	(C)	50 m/s		(D)	15 m/s
65.	Which is:	the nerve of hearing?			
00.				(D)	A. diam.
	(A) (C)	Optic nerve Vestibular nerve		(B) (D)	Auditory nerve Auditory cortex
	(0)	vestibular herve			Auditory cortex
66.	World He	art day:			
	(A)	September 11		(B)	December 1
	(C)	September 26		(D)	October 16
67.	The perso	n who introduced EC	G: 10		
2277	(A)	William Harvey	- 0	(B)	William Einthoven
	(C)	Thomas Lewis		(D)	John Gibbon
	Presed Ton			arls es	
68.	The phen	omenon of abnormal	growth of loudnes	ss:	
	(A)	Tinnitus		(B)	Noise
	(C)	Recruitment		(D)	None of these
69.	Which Ele	ectrical event is happ	ening in the cell?		
	(A)	Diffusion		(B)	Bioelectricity
	(C)	Biodiversity		(D)	Bulk transport
					about AB to mortgar 1
70.	Biggest a	rtery in the human be	ody:		
	(A)	Pulmonary artery	(0)	(B)	Right coronary artery
	(C)	Left coronary artery	7	(D)	Aorta
71.	The Eusta	achian tube connect t	he tympanic cavi	ty with	cal vino out to man limited will - 30
	(A)	Nasopharynx	(0)	(B)	Tympanic cavity
	(C)	Ear ossicles		(D)	Cochlea

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72.	Which pro	tects the spinal cord from injuries?		
	(A)	Vertebral column	(B)	Thoracic vertebrae
	(C)	Tibia	(D)	Fibula
73.	Normal pa	aper speed of ECG machine :		
	(A)	15mm/s	(B)	10s
	(C)	25m/s	(D)	25mm/s
74.	Which col	lects and diverts the sound waves from	the a	tmosphere to the ear?
	(A)	External ear	(B)	External auditory canal
	(C)	Pinna	(D)	Tympanic membrane
75.	Heart day	theme for the year 2014:		
	(A)	Heart and Exercise		
	(B)	Ageing and Health		
	(C)	Creating Heart healthy environment	8	
	(D)	High blood pressure		
76.	The colou	r used in graph paper for plotting the	audiog	gram of air conduction for left ear :
	(A)	Red	(B)	Green
	(C)	Blue	(D)	Black
77.	Which in	strument helps for hearing by magnify	ing th	e Sound electrically or mechanically?
	(A)	Ear mould	(B)	Audiometer
	(C)	Speech audiometer	(D)	Hearing aid
78.	The nerve	e of body balance :		
	(A)	Olfactory nerve	(B)	Vestibular nerve
	(C)	Cochlear nerve	(D)	None of these

79.	In which internal e		nsmitted thro	ugh the external ear, middle ear and
	(A)	Air conduction	(B)	Bone conduction
	(C)	Both	(D)	None of these
80.	Which lin	nb lead is called the "ground" o	r "reference el	ectrode"?
	(A)	Right arm	(B)	Left arm
	(C)	Right leg	(D)	Left leg
81.	Who foun	ded M.A.O College at Alligarh	in 1875?	
	(A)	Moulana Abdul Kalam Azad		
	(B)	Sir Syed Ahemadkhan		
	(C)	Tej Bahadur Sapru		
	(D)	Madan Mohan Malavya		
82.	Who was	the head of the women regime	nt of INA?	
	(A)	Aruna Asaf Ali	(B)	Bicajicama
	(C)	Annie Besant	(D)	Laxmi Sehgal
83.	The first	Sathyagraha of Mahatma Gand	dhi was :	
	(A)	Ahammedabad Mill Strike	(B)	Non Co-operation Movement
	(C)	Kheda Satyagraha	(D)	Champaran Sathyagraha
84.				sident of Indian National Congress
	(A)	1915 Manthibox 3	(B)	1916
	(C)	1917 Mary simples of	(D)	1920
85.	Which pre	e-congress association was head	ded by Surend	ra Nath Banerjee?
	(A)	Indian Association	(B)	Madras Mahajana Sabha
	(C)	Bombay association	(D)	Poona Sarvajanika Sabha

86.	When was first factory commission was setup in India?					
	(A)	1850	(B)	1875		
	(C)	1863	(D)	1871		
87.	Which reg	gion or state was the pioneer in the	field of In	dian Journalism?		
	(A)	Bombay	(B)	Bengal		
	(C)	Delhi	(D)	Kerala		
88.	Which Na	tional leader's birthday is celebrat	ed as Nati	onal Education Day?		
	(A)	Dr. S. Radhakrishnan	(B)	Jawaharlal Nehru		
	(C)	Maulana Abdul Kalam Azad	(D)	Dadabhai Nauroji		
89.	Grand old	l man of South India :				
	(A)	G. Subrahmanya Iyyer	(B)	Dadabhai Nauroji		
	(C)	Barrister G.P. Pillai	(D)	Potty Sree Ramalingam		
90.	Who orga	nised 'Thathwa Bodhini Sabha'?				
	(A)	Debendranath Tagore	(B)	Benkim Chandra Chattergee		
	(C)	Rabindranath Tagore	(D)	Kesab Chandrazen		
91.		eneral election of 1952, K kelapp on the ticket of :	pan was	elected from Ponnani Loksabha seat		
	(A)	Kisan Masdoor Praja Party	(B)	Indian National Congress		
	(C)	Socialist Party	(D)	Praja Socialist Party		
92.	Father of	Kerala Renaissance :				
	(A)	Chattampi Swamikal	(B)	Sreenarayan Guru		
	(C)	Ayyankali	(D)	Vagbhadanandan		
93.	'Sivayoga	Rahasyam' was written by Brahm	anda Siva	yogi is a :		
3	(A)	Short story	(B)	Novel		
	(C)	Article	(D)	Poem		

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94.	Who was	the founder of 'Samathwa Samajam'?					
	(A)	Jyothibha Phule	(B)	Chattampi Swamikal			
	(C)	Vaikunda Swami	(D)	Kesab Chandrasen			
95.	Who start	ted the 'Swadeshabhimani' Newspaper	:				
	(A)	K. Ramakrishnapillai	(B)	A.K. Gopalan			
	(C)	Vakkom Abdulkadir Maulavi	(D)	K. Kelappan			
96.	Whose pe	nname is 'Keralan'?					
	(A)	K. Kelappan					
	(B)	Keralavarma Valiyakoi Thampuran					
	(C)	Vallathol					
	(D)	K. Ramakrishnapillai					
97.	Who decla	ared Temple Entry Proclamation?					
	(A)	Sri. Avittom Thirunnal					
	(B) Sri. Chithira Thirunnal Balaramavarma						
	(C)	Sri. Karthika Thirunnal Balaramava	rma				
	(D)	Rani Gouri Laxmi					
98.	Who is the renaissance leader known as 'Pulayarajavu'?						
	(A)	Ayyankali	(B)	K.P. Karuppan			
	(C)	Sahodaran Ayyappan	(D)	T.K. Madhavan			
99.	The Nair	Service Society founded by the late Sri	Man	nathu Padmanabhan on :			
	(A)	September 1914	(B)	October 1914			
	(C)	November 1914	(D)	December 1914			
100.	The book	Treatment of Thiyas in Travancore' wa	as wri	tten by :			
	(A)	Dr. Naidu	(B)	Sreenarayana Guru			
	(C)	Dr. Palpu	(D)	Pattam Thanupillai			

(B) (Cities)