Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	Who was	the founder of Samatva Samajam?		
	(A)	Vaikunta Swamikal	(B)	Sree Narayana Guru
,	(C)	Chattampi Swamikal	(D)	Ayyankali
2.	Which of	the following statement is not correct	about t	he national flag of India?
	(A)	Deep saffron colour signifies courag	e and sa	acrifice
	(B)	Designed by Pingali Venkayya		
	(C)	Green colour signifies truth and pea	ice	
	(D)	The design of the flag was adopted l	by the c	onstituent assembly on July 22, 1947
3.	Who is kn	nown as the 'Father of Kerala Renaiss	ance'?	
	(A)	K. Kelappan		
	(B)	Sree Narayana Guru		
	(C)	Chattampi Swamikal		
	(D)	Swadeshabhimani Ramakrishna Pil	llai	
4.	Bharatan	atyam is a classical dance form of:		
	. (A)	Kerala -	(B)	Karnataka
	(C)	Andhra Pradesh	(D)	Tamil Nadu
5.	National	Ship Design and Research Centre is s	ituated	in: ,
	(A)	Mumbai	(B)	Kandla
	(C)	Vishakapatnam	(D)	Kochi
6.	Who is th	e first sportsman to win India's highe	st civili	an honour – 'Bharat Ratna'?
	(A)	Milkha Singh	. (B)	Jimmy George
	(C)	Abhinav Bindra	(D)	Sachin Tendulkar
7.	Which of	the following is not correct about Cha	ttampi	Swamikal?
	(A)	He was a Nair reformist	(B)	He founded the Vidhyaposhini Sabha
	(C)	His real name was Kanjan Pillai	(D)	He attained Samadhi at Panmana

8.	Whose au	tobiography is Ente Nadukadathal?		
	(A)	Swadeshabhimani Ramakrishna Pilla	ai	
	(B)	Sahodaran Ayyappan		
	(C)	Ayyankali		
	(D)	V.T. Bhattathiripad		
9.	Who was	known as 'Arivinte Thampuran'?		
	(A)	M.N. Govindan Nair	25	
	(B)	Poomulli Neelakandan Nambootiripa	d	
	(C)	G. Madhavan Nair		
	(D)	O.N.V. Kurup	*	
10.	Temple E	intry Proclamation was issued on Nove	mber	12, 1936 by :
	(A)	Chithirai Thirunal Balarama Varma	(B)	Marthanda Varma
	(C)	Rani Gauri Lakshmi Bai	(D)	Swathi Thirunal
11.	Golden qu	andrilateral project is :		
	(A)	a bridge project across the river Gang	a	
	(B)	a ship channel project between India	and S	ri Lanka
	(C)	a highway project linking four metro		
	(D)	none of these		
12.	Misoram	won the Santhosh Trophy Footba	all To	ournament 2014. Misoram defeated
	(A)	Tamil Nadu	(B)	Services
	(C)	West Bengal	(D)	Railways
13.	The Chief	Election Commission of Kerala is:		
	(A)	N. Gopalaswami	(B)	Navin B. Chawla
	(C)	Nalini Netto	(D)	M.S. Swaminathan
14.	Which of t	the Travancore ruler abolished slave tra	ade ar	mong their subjects?
	(A)		(B)	Rani Gouri Lakshmi Bai
	(C)	Dharma Raja	(D)	Swathi Thirunal
65/9	014			

15.	'Devadasi system' in the temples of South Travancore is abolished by:					
	(A)	Sethu Lakshmi Bai	(B)	Srimulam Thirunal		
	(C)	Ayilam Thirunal	(D)	Umayamma Rani		
16.	Three la	를 수 유지는 전문 (2.1)에 있는 전에 있는 것으로 하는 것으로 하는 것으로 하는 것으로 하는 것으로 보고 있는 것이다. 그는 것으로 하는 것으로 보고 있는 것이다. 그는 것으로 보고 있는 것	Hindi	and English) for education was		
	(A)	Radha Krishnan Commission	(B)	Hunter Commission		
	(C)	Kothari Commission	(D)	None of these		
17.	Which of India mov		blished	from Malabar during the period of Quit		
	(A)	Swathanthra Bharatham	(B)	Navakeralam		
	(C)	Malayali	(D)	Sahodaran		
18.	World Wo	omen's Day is celebrating on :				
		March 15	(B)	May 12		
	(C)	June 20	(D)	March 8		
19.	Which of	the following is not correct about Vai	kkom S	athyagraha?		
	(A)	Started on March 30, 1924				
	(B)	Gandhiji visited Kerala related to t	he Vaik	kom Sathyagraha		
	(C)	T.K. Madhavan and K.P. Kesavame	enon we	re the major leaders		
	(D)	A Savarna Jatha (March of upper c Vaikkom to Thiruvananthapuram		as led by Mannath Padmanabhan from Vaikkom Satyagraha		
	1.000					
20.	Koodamk	ulam Atomic Power Plant is being bu	ilt with	the help of:		
	(A)	England	(B)	Russia		
	(C)	U.S.A.	(D)	France		
21.	Substanc	e used for making powerful magnet :				
	(A)	Cobalt	(B)	Magnetite .		
	(C)	Steel	(D)	Soft iron		
22.	Catalyst	used for increasing the speed of deco	mpositio	on of H ₂ O ₂ ;		
	(A)	H_3PO_4	(B)	MnO_2		
	(C)	Fe	(D)	V_2O_5 .		
	1-7					

23.	Which vitamin is chemically called as ascorbic acid?						
	(A)	Vit. A	(B)	Vit. D			
	(C)	Vit. E	(D)	Vit. C			
24.	The acid	and alkali used for prepar	ing sodium chloride	:			
	(A)	KOH and HCl	(B)	NaOH and HCl			
	(C)	NaOH and H ₂ SO ₄	(D)	NaOH and HNO ₃			
25.	Write the	name of the gas used for	welding:				
	(A)	Carbon dioxide	(B)	Oxygen			
	(C)	Acetylene	(D)	Acetone .			
26.	The eleme	ent present in chlorophyll	:				
	(A)	Magnesium	(B)	Manganese			
	(C)	Molybdenum	(D)	Mercury			
27.	The poiso	nous gas used as an indus	strial fuel :				
	(A)	Nitrogen	(B)	Sulphur dioxide			
	(C)	Carbon monoxide	(D)	Chlorine ,			
28.	Who is kr	nown as "The King of inve	ntions"?				
	(A)	Einstein	(B)	Edison			
	(C)	Newton	(D)	Faraday			
29.	Blight dis	ease of paddy caused by :					
	(A)	Fungus	(B)	Bacteria			
	(C)	Virus	(D)	Protozoa			
30.	Unit of w	avelength;					
	(A)	meter	(B)	light year			
	(C)	angstrom	(D)	parsac			
31.	The instr	ument in which the perma	nent magnet is use	ed:			
	(A)	loud speaker	(B)	electric bell			
	(C)	electric motor	(D)	generator			

32.	February 28 "National Science Day" is related to which Scientist?						
	(A)	J.C. Bose	(B)	Sathendra Boss			
	(C)	C.V. Raman	(D)	Chandra Sekar			
33.	The subst	ance with highest specific he	at capacity:				
	(A)	iron	(B)	glass			
	(C)	coconut oil	(D)	water			
34.	Which is	known as "dry ice"?					
94.		Ice	(B)	Water gas			
	(C)	Carbon	(D)	Carbon dioxide			
35.	Major hyd	drocarbon present in LPG :					
	(A)	Ethane	(B)	Butane .			
	(C)	Methane	(D)	Phosphene			
36.	The meta	l present in hemoglobin is :					
	(A)	Copper	(B)	Iron			
	(C)	Aluminium	(D)	Calcium			
37.	Who invo	nt the smallest element hydr	ogon?				
01.	(A)		(B)	Boyle			
	(C)	Henry Kaventosh	(D)	Rutherford			
38.	I note of io	dine leads to disease :					
00.	(A)	Goiter	(B)-	Diabetes			
	(C)	Nephritis	(D)	Meningitis			
39.	The gas u	sed in refrigerator which effe	ect ozone layer :				
7	(A)	CNG	(B)	CFC			
	(C)	CO	(D)	CO ₂			
40.	The first	woman noble prize winner in	Science :				
*	(A)	Marie Curie	(B)	Alen			
	(C)	Sunitha William	(D)	Perylene			

41.	Sound sig	mals are also called :		
	(A)	Hydraulic	(B)	Pneumatic
	(C)	Acoustic	(D)	Optical
42.	The press	sure pad which is used to keep the tape	press	ed against the capstan is:
	(A)	Flywheel	(B)	Pinch roller
	(C)	Pulley	(D)	None of these
43.	The range	e of audible sound is :		
	(A)	20 – 20 kHz	(B)	2 – 20 kHz
	(C)	200 – 20 kHz	(D)	2 K – 20 kHz
44.	Who inve	nted the first multitrack tape recorder?		
	(A)	Thomas Edison	(B)	Les Paul
	(C)	J.L. Baird	(D)	Marconi
45.	The trans	ducer which is used to convert sound en	ergy	to electrical energy is :
	(A)	Amplifier	(B)	Speaker
	(C)	Microphone	(D)	Transformer
46.	Which on	e of the following is not altered by an an	aplifi	er?
	(A)	Voltage	(B)	Frequency
	(C)	Power	(D)	Current
47.	The speed	l of sound wave in air is :		
	(A)	300 m/s	(B)	413 m/s
	(C)	344 m/s	(D)	none of these
48.	A Hi-Fi a	udio system has signal to noise ratio atl	east:	
	(A)	50 db	(B)	100 db
	(C)	10 db	(D)	90 db
49.		is the term used for distortion	due	to small variation in speed in tape
	recorder.			
	(A)	Flutter	(B)	Rumble
	(C)	Wow	(D)	Hissing noise

50.	The device	which is used to strengthen the wea	K audio	signai is .
	(A)	Regulator	(B)	Inverter
	(C)	Oscillator	(D)	Amplifier
51.	The ratio	of output quantity to the input of an	amplifie	er is called it's :
	(A)	Gain	(B)	Distortion
	(C)	Frequency response	(D)	Bandwidth
52.	The ampli	fier works in region.		
	(A)	Cut-off region	(B)	Saturation region
	(C)	Active region	(D)	None of these
53.			ommun	ication system.
	(A)	Carbon	(B)	Condenser
	(C)	Ribbon	(D)	Crystal
54.	Threshold	of hearing equals to an intensity of :		
	(A)	10 ⁻¹² watts/m ²	(B)	10 ⁻⁶ watts/m ²
	(C)	10^{12} watts/m ²	(D)	10 ⁶ watts/m ²
55.	The incre	ase in loudness is determined by the	unit:	
00.	(A)	Phon	(B)	Sone
	(C)	Pascal	(D)	Micro-bar
56.	West .	——— feedback is used in amplifiers.		
	(A)	Positive	(B)	Negative
	(C)	Regenerative	(D)	None of these
57.	The first	practical sound recording and reprod	uction o	device was invented by :
	(A)	Ray Dolby	(B)	Les Paul
	(C)	Thomas Edison	(D)	J.L. Baird
58.	The unit	of pitch of sound is:		
	(A)	Hertz	(B)	MEL
	(C)	N/m^2	(D)	Micro-bar
	(0)		0.00	

59.	system gives three dimensional sound effect.				
	(A)	Stereophonic	(B)	Monophonic	
	(C)	Acoustic	(D)	Reverberation	
60.	Disadvan	ntage of push pull amplifier is :			
	(A)	Frequency distortion	(B)	Crossover distortion	
	(C)	Phase distortion	(D)	None of these	
61.	In digital	recording sound signals are stored	as:		
	(A)	Decimal digits	(B)	Electrical signals	
	(C)	Analog form	(D)	Binary digits	
62,	High aud	io levels can be recorded without dis	tortion u	ising:	
	(A)	DC biasing	(B)	AC biasing	
	(C)	Forward biasing	(D)	Reverse biasing	
63.	Which con	mpany produced the first commercia	lly avail	able magnetic tape recorder?	
	(A)	Bell	(B)	Dolby	
	(C)	Wipro	(D)	Ampex	
64.		is used as voltage amplifier.			
*	(A)	Direct coupled amplifier	(B)	RC coupled amplifier	
	(C)	Transformer coupled amplifier	(D)	Push pull amplifier	
65.	Dolby A n	oise reduction system was invented	by:		
	(A)	Thomas Edison	(B)	Ray Dolby	
	(C)	J. Bardeen	(D)	J.L. Baird	
66.	Digital re	ecording and reproduction convert ne to the digital form by the process	s the ar	nalog sound signal picked up by the	
	(A)	Sampling	(B)	Decoding	
	(C)	Digitization.	(D)	Encoding	
67.	Emphasiz	ing low intensity sounds before reco	rding is	called:	
	(A)	Pre-emphasis	(B)	Equalisation	
	(C)	De-emphasis	(D)	Quantisation	

68.	Unit of so	und is :		
	. (A)	Decibel	(B)	Hertz
	(C)	Ampere	(D)	None of these
69.	The frequ	ency which is used for sampling the	ne audio sig	gnal is:
	(A)	8 kHz	(B)	18 kHz
	(C)	2 kHz	(D)	12 kHz
70.	Impedano	e matching is excellent for —	ar	nplifiers.
	(A)	RC coupled amplifier	(B)	Direct coupled
	(C)	Transformer coupled	, (D)	Voltage
71.	In human	beings the two ears provide ——		effect.
	(A)	Monophonic	(B)	Stereophonic
	(C)	Doppler	(D)	Quadraphonic
72.		the beat frequency produced wh re superimposed?	en two sou	and waves of frequencies 250 Hz and
	(A)	10 Hz	(B)	506 Hz
	(C)	6 Hz	(D)	3 Hz
73.	Which pr	operty of the sound is used in Son	ography?	
	(A)	Reverberation	(B)	Doppler effect
	(C)	Reflection	(D)	Loudness
74.	Velocity	of sound is maximum in:		
	(A)	Dry air	(B)	Moist air
	(C)	Vacuum	(D)	Water
75.	In public	address system, a mixer is also ca	alled:	
	(A)	Tuner	(B)	Fader
	(C)	Converter	(D)	Amplifier
7.1				

76.	During the sound. W		dies in outer space	we can see the light, but can't hear the
	(A)	Sound is not produced		
	(B)	Sound needs a medium	to travel	
	(C)	Sound does not need a	medium	
	(D)	Sound is a wave motion		
77.		is not a property of	sound.	
	(A)	Amplitude	(B)	Velocity
	(C)	Wavelength	(D)	Polarisation .
78.	A high fro	equency loud speaker is c	alled:	
	(A)	Tweeter	(B)	Woofer
	(C)	Squawker	(D)	Cone type
79.	The part	on which the sound wave	s hits in a micropho	one is called :
	(A)	Pole pieces	(B)	Coil
	(C)	Diaphragm	(D)	Magnet
80.		is a better recordin	g medium.	
	(A)	Chromium dioxide	(B)	Ferric oxide
	(C)	Ferrous oxide	• (D)	Barium oxide
81.	Sound wa		the process of sou	md amplification based on stimulated
	(A)	Photons	(B)	Radiation
	(C)	Electrons	(D)	Phonons
82.			-track tape to play	four different tracks at the same time.
	(A)	Quadraphonic	(B)	Monophonic -
	(C)	Stereophonic	(D)	None of these
83.	Sound is p	produced from the vocal c	hord due to the vibr	ration of:
	(A)	Throat	(B)	Pharynx
	(C)	Larynx	(D)	Tongue
65/20)14		12	Δ

the -	-	of the audio signal:		
	(A)	Amplitude	(B)	Time period
	(C)	Frequency	(D)	Phase
		amplifier is the final amplif	ication sta	ge.
	(A)	Voltage amplifier	(B)	Current
	(C)	Power	(D)	Feedback
The a	rudio	voltage amplifier is always		type.
		Class A	(B)	Class B
	(C)	Class C	(D)	Class AB
		is used for impedance match	ning in pus	h pull amplifier.
	(A)	Transistor	(B)	Capacitor
	(C)	Resistor	(D)	Transformer
		amplifier is used as pre-amp	olifiers.	
	(A)	Voltage	(B)	Power
	(C)	Feedback	(D)	Current
		boosts high frequencies in a	udio ampli	fiers.
	(A)	Volume control	(B)	Gain control
	(C)	Bass control	(D)	Treble control
Veloc	ity h	igher than the velocity of sound is	called:	
	(A)	Ultrasonic	(B)	Infrasonic
	(C)	Supersonic	(D)	None of these
The r	esist	ance of a loud speaker is usually:		
	(A)	a few mega-ohms	(B)	a few kilo-ohms
	(C)	a few ohms	(D)	a few hundred-ohms
In pu	sh-p	ull amplifier each transistor cond	acts for :	
	(A)	90°	(B)	45°
	(C)	360°	(D)	180°

93.	The grade	aal fading of continuing echo is called		
	(A)	Reflection	(B)	Absorption
	(C)	Diffraction	(D)	Reverberation
94.	Optical re	ecording of sound on compact discs is o	lone wi	ith the help of:
	(A)	Electron beam	(B)	Magnetic effect
	(C)	Laser beam	(D)	None of these
95.	The most	commonly used transistor amplifier e	ircuit i	8:
	(A)	Common base	(B)	Common collector
	(C)	Common base or common collector	(D)	Common emitter
96.	The dista known as		compr	ession or rarefaction of a sound wave is
	(A)	Amplitude	(B)	Frequency
	(C)	Velocity	(D)	Wavelength
97.	What is t	he intensity of sound for normal conve	rsation	1?
	(A)	80 dB	(B)	120 dB
	(C)	10^{-10} w/m^2	(D)	50 dB
98.	PA system	ns use — type loudspeak	er.	
	(A)	Horn type	(B)	Cone type
	(C)	Electro dynamic	(D)	None of these
99.		is the power amplifier used in a	udio sy	vstem.
	(A)	RC coupled amplifier	(B)	Direct coupled amplifier
	(C)	Voltage amplifier	(D)	Push-pull amplifier
100.	Any unwa	anted sound produced in an audio syst	em is c	alled:
	(A)	Distortion	(B)	Deflection
	(C)	Frequency distortion	(D)	Noise
	- 1951			