Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	A ohm me	ter is basically :		
	(A)	A Ammeter	(B)	A volt meter
	(C)	A Multimeter	(D)	None of the above
2.	In a full w	ave rectifier without filter, the ripple i	factor	is:
	(A)	1.21	(B)	1.79
	(C)	0.482	(D)	2.05
3.	In an op-a	mp CMRR stands for :		
	(A)	Common Mode Rejection Rate	(B)	Cross Mode Rejection Ratio
	(C)	Common Mode Rejection Ratio	(D)	Cross Mode Rejection Rate
4.	Convert 3	58 octal number to decimal:		
	(A)	17	(B)	92
	(C)	29	(D)	71
5.	Potention	neter is an ——— instrument.		
	(A)	Indicating	(B)	Comparison
	(C)	Calibrating	(D)	Recording
6.	. Which of	the following is not the same as watt?		
	(A)	Joule/Sec	(B)	· Amperes × Volt
	(C)	Amperes/Volt	(D)	$(Amperes)^2 \times Ohm$
7.	The INPU	JT impedance of an ideal op-amp is :		
1200	(A)	Low	(B)	Infinite
	(C)	High	(D)	None of these

8.	An AND	gate with schematic B — gate.	ubbles' on Lts in i	nputs performs the same function a	1
	(A)	NOT	(B)	OR	
	(C)	NOR	(D)	NAND	
9.	The 1's co	emplement of 01010110 is	3:		
	(A)	10111101	(B)	10101001	
	(C)	11001100	(D)	11001011	
10.	Full form	of HART is:			
	(A)	High Way Addressable	Range Transmitter		
	(B)	High Way Accessable R	Remote Transducer		
	(C)	High Way Addressable	Remote Transmitte	r	
	(D)	High Way Accessable R	Range Transducer		
11.	When the	pressure of water increa	ise, its volume :		
	(A)	Increases	(B)	Not Change	
	(C)	Decreases	(D)	None of these	
12.	An angul	arity error is in the :			
	(A)	Energy meter	(B)	Mano meter	
	(C)	BT Pressure gauge	(D)	Micro meter	
13.		- is the final control elen	nent in the most pro	cess control system.	
	(A)	Controller	(B)	Transmitter	
	(C)	Control Valve	(D)	Amplifier	
14.	For flow	measurement of highly co	orrosive and erosive	fluids ——— used.	
	(A)	Venturimeter	(B)	Magnetic flow meter	
	(C)	Rotameter	(D)	Pitot tube	
15.	A micro p	rocessor unit, a memory	unit and an input/or	utput unit form a :	
	. (A)	Compiler	(B)	ALU	
	(C)	CPU	(D)	Micro Computer	

16.	Kirchoffs S	Second law is base	ed on law of conserva	tion o	f:
	(A)	Charge		(B)	Momentum
	(C)	Energy		(D)	Mass
17.	The power	factor of ac circui	it lies between :		
	(A)	0 and -1		(B)	-1 and 1
	(C)	0 and 1		(D)	None of these above
18.	An LVDT	uses a —	core.		
	(A)	Variable Core		(B)	Soft Iron Core
	(C)	Hard Iron Core		(D)	Moving Displacement Core
19.	The range	of pH of acidic so	lution is between :		
	(A)	5 to 10		(B)	7 to 14
	(C)	10 to 15		(D)	0 to 6
20.	Unit of for	rce in FPS system	is:		
	(A)	Newton		(B)	Kg
	(C)	Pound		(D)	Gram
21.	Low press	eure unit is expres	sed in :		
	(A)	Gram		(B)	Bar
	(C)	Torr		(D)	Pound
22.	Expand V	AN:			
	(A)	World Area Net	work	(B)	Web Area Network
	(C)	Wide Area Netw	rork	(D)	None of these
23.	Psi in ter	ms of pressure sta	ands for:		
	(A)	Pressure Square	Inch	(B)	Per Square Inch
	(C)	Pounds Per Squ	are Inch	(D)	Perpendicular Square Inch
24.	What typ	e of device is a ser	nsor?		
	(A)	Process		(B)	Input
	(C)	Feed Back		(D)	Output

25.	Pyro met	re is used to measure :		
	(A)	High pressure	(B)	High voltage
	(C)	High temp.	(D)	None of these
26.	Rota met	er is used for measurement of :		
	(A)	Level	(B)	Pressure
	(C)	Volume	(D)	Flow
-				
27.	Standard	current process para meter sensor r	ange is:	
	(A)	01 ma to 10 ma	(B)	10 ma to 20 ma
	(C)	01 ma to 100 ma	(D)	04 ma to 20 ma
28.	Physical	or logical arrangement of network is	:	
	(A)	Topology	(B)	Networking
	. (C)	Routing	(D)	None of these
29.	What dev	ice is similar to an rtd but has a neg	ative ten	perature coefficient?
	(A)	Strain Gauge	(B)	Thermo Couple
	(C)	Thermistor	(D)	Pyro Meter
30.	PID Stan	ds For :		
	(A)	Proportionally Integrated Diode	(B)	Power Indication Display
	(C)	Proportional Integral Derivative	(D)	Phase Inverting Driver
31.	In process	s control P to I convertor means:		
	(A)	Pulse to interia convertor		
	(B)	Pressure to intensity convertor		
	(C)	Pressure to current convertor		
	(D)	Pressure to indicator valve converte	or	
32.	In A —	controller, a flapper nozzle is a	used.	
1	(A)	Electronic	(B)	Hydrostatic
	(C)	Pneumatic	(D)	All of above

33.	——————————————————————————————————————						
	(A)	Spring	(B)	Invar			
	(C)	Stainless	(D)	High Carbon			
34.	Clino Met	er is an instrument concerned wit	h :				
	(A)	Temp Measurement	(B)	Linear Measurement			
	·(C)	Flatness Measurement	(D)	Angular Measurement			
35.		- is a quantity meter.					
	(A)	Orifice Plate	(B)	Anemometer			
	(C)	Nutating Disk Meter	(D)	Rota Meter			
36.		is the most accurate instrument.					
	(A)	Height Gauge	(B)	Screw Gauge			
	(C)	Optical Projector	(D)	Mechanical Comparator			
37.		- is not provided on combination s	et.				
	(A)	Spirit level	(B)	Protractor head			
	(C)	Vernier scale	(D)	Centre head			
38.	A sin bar	is used to measure:					
	(A)	Surface Roughness	(B)	Gear Profiles			
	(C)	Internal Tapers	(D)	External Tapers			
39.	Dall Tube	is another variation of :					
	(A)	Pitot Tube	(B)	Flow Nozzle			
	(C)	Venturi Tube	(D)	Annubar Tube			
40.	For strain	gauge, the gauge factor is genera	lly in the r	ange of:			
	(A)	0.2 to 0.8	(B)	1.5 to 2.0			
	(C)	0.8 to 1.5	(D)	2.0 to 4.0			
41.	Unit of de	eflection sensitivity of CRO is :					
	(A)	V/Mm	(B)	Metre Per Volt			
	(C)	Mm Per Mv	(D)	Mm/V			

42.	LVDT is a	1	Transducer.			
	(A)	Eddy	Current	(B	) I	Resistance
	(C)	Indu	ctive	(D	) 1	Magnetostriction
43.	In process	contr	ol HMI means :			
	(A)	Hum	an Motion Indicator	(B	) I	Tuman Machine Interface
	(C)	Hail	Machine Interface	(D	) I	Hot Machine Indicator
44.	DCS Proc	ess Co	ntrol System means :			
	(A)	Data	Control System	(B	) I	Distributed Control System
	(C)	Data	Core System	(D	) I	Damaged Control System
45.	Reynolds	numbe	er for Turbulent flow	is:		ellatera design
	(A)	Betw	een 1000 and 2000	(B	) I	ess than 500
	(C)	More	than 4000	(D	) E	Between 500 and 1000
46.	RTU Mean	ns:				
	(A)	Rang	e Transmitter Unit	(B)	) B	Remote Terminal Unit
	(C)	Rota	Meter Trans Unit	(D	) R	Range Transfer Unit
47.	A transdu	cer cor	overts — from	n one form to a	noth	ner.
	(A)	Sound	d	(B)	) H	leat
	(C)	Energ	zy ·	(D)	) E	Electricity
48.	Which tra	nsmiss	sion media has highe	st transmission	spe	ed in a network?
	(A)	Electr	rical Cable	(B)	Т	wisted Cable
	(C)	Optic	al Fibre	(D)	) N	Ione of these
49.	In this top	ology t	there is a central con	troller or hub:		
	(A)	Star		(B)	M	fesh
	(C)	Ring		(D)	В	us
50.	One Micro	n is eq	ual to:			
	(A)	1 mm		(B)	0.	.1 mm
	(C)	0.01 n	nm	(D)	0.	001 mm

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51.	A feeler ga	auge is used to check :		
	(A)	Screw Pitch	(B)	Surface Roughness
	(C)	Thickness Of Clearance	(D)	Unsymmetrical Shape
52.	The joints	of a phosphor bronze bourdon tubes	are:	
	(A)	Jointed by adhesives	(B)	Soldered
	(C)	Screwed	(D)	Brazed
53.	V- Block i	s used to check :		
	(A)	Roundness of a cylindrical work	(B)	Surface roughness
	(C)	Taper on a job	(D)	Dimension as oval job
54.		— is used to measure flow as air aro	und an a	aeroplane.
	(A)	Anemometer	(B)	Rota Meter
	(C)	Venturi Meter	(D)	Orifice Meter
55.	Systemat	ic errors are :		
	(A)	Instrumental errors	(B)	Environmental errors
	(C)	Observational errors	(D)	All of the above
56.	The work	ing of ———— is not affected by	the fluid	density.
	(A)	Orifice plate	(B)	Rota meter
	(C)	Magnetic flow meter	(D)	Pitot table
57.	In a meta	d resistance thermometer the sensin	g elemer	nt is usually made by:
	(A)	Brass	(B)	Cast iron
	(C)	Mild steel	(D)	Platinum
58.	Bevelled	edge of the orifice plate is on —	sid	e of the orifice plate assembly.
	(A)	Bevelled	(B)	Inside
	(C)	Outside	(D)	Rear Side
59.	Viscosity	of air ——— with increase of	tempera	ture.
	(A)	Increases	(B)	Decreases
	(C)	Not Change	(D)	Same

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https://www.freshersnow.com/previous-year-question-papers/

60.	Well type	mano meter is	—— accurate than U	tube nanometer.	
	(A)	Less	(B)	More	
	(C)	Not	(D)	None of these	
61.	Unit of pr	essure is:			
	(A)	Pascal	(B)	N-M	
	· (C)	Kg/m³	(D)	Pound	
62.	LED prod	uces light when ——	biased.		
	(A)	Reverse	(B)	Positively.	
	(C)	Forward	(D)	Negatively	
63.	In calibra	ting a pressure instrun	nent we first adjust it	s:	
	(A)	Span	(B)	Zero	
	(C)	Linearity	(D)	Output	
64.	Which typ	e of signal is represent	ed by discrete values	1	
	(A)	Noisy Signal	(B)	Analog	
	(C)	Digital	(D)	Non -Linear	
65.	A series o	f gradually decreasing	sine wave oscillations	is called:	
	(A)	Ringing	(B)	Under Shooting	
	(C)	Slew	(D)	Over Shooting	
66.	Liquid flo	w is measured in :			
	(A)	Litres	(B)	Gallons	
	(C)	Litres Per Hour	(D)	None of these	
67.	Standard	pneumatic output of an	I to P convertor is —	to	—Kg/Cm <sup>2</sup> .
	(A)	0 to 2	(B)	0.2 to 1	
	(C)	1.5 to 3	(D)	3 to 15	
68.	An ideal o	perat <mark>ional amplifier ha</mark>	s:		
	(A)	Infinite output impeda	ance (B)	Infinite bandwidth	
	(C)	Zero input impedance	(D)	All of these above	

69.	The base	of a transistor is	very — dop	ed.		
	(A)	Highly		(B)	Lightly	
	(C)	Largely		(D)	None of these	
70.	If proport	ional band is mo	re, controller response	will b	e:	
	(A)	High		(B)	Less	
	(C)	More		(D)	Same	
71.	Unit of co	nductance is:				
	(A)	Ohm		(B)	Mho	
	(C)	Henry		(D)	Ampere	
72.	Ct S are u	used for measure	ment of:			
95	(A)	Voltage		(B)	Resistance	
	(C)	Current		(D)	Inductance	
73.	Standard	cell voltage is:				
	(A)	2.5 V		(B)	1.5 V	
	(C)	10 V		(D)	5 V	
74.	Solder is	an alloy of :				
	(A)	Copper and Tir	n	(B)	Brass and Zinc	
	(C)	Tin and Lead		(D)	Copper and Zinc	
75.	The Logic	Gate that will h	nave high or '1' at its o	utput	when any its input is high is	s A (N):
	(A)	AND Gate		(B)	NOR Gate	
	(C)	OR Gate		(D)	NOT Gate	
76.	A Port ca	n be :				4.0
	(A)	Strictly for inp	out	(B)	Bi directional	
	(C)	Strictly for out	tput	(D)	All of the above	
77.	The Full	range form atmo	ospheric pressure to a	perfec	t vaccum is:	
	(A)	7.14 Psi		(B)	0.40 Torr	
	(C)	14.7 Psi		(D)	0.40 Psi	
A			11			032/2016 [P.T.O.]
						[1.1.0.]

78.	A thermo	couple gauge is one type of:		
	(A)	Mcleod gauge	(B)	Slack diaphragm gauge
	(C)	Thermal conductivity gauge	(D)	Pirani gauge
79.	The differ	rence between gauge and absolu	ite pressure is	
	(A)	Vaccum	(B)	Atmospheric Pressure
	(C)	Zero	(D)	0.433 Psi
80.	The differ	rence between set point and pro	cess variable	is called as :
	(A)	Offset	(B)	Over Shoot
	(C)	Error	(D)	None of these
81.	From whi	ch country did India borrow the	'Idea of Sing	le Citizenship'?
	(A)	USA	(B)	Britain
	(C)	Ireland	(D)	USSR
82.	Who prep	ared the preamble of Indian Co	nstitution?	
	(A)	B.R. Ambedkar	(B)	Moulana Abdul Kalam Azad
	(C)	Dr. Rajendra Prasad	(D)	Jawaharlal Nehru
83.	Which rig	ht was removed from the funda	mental right	of Indian Constitution?
	(A)	Right to property	(B)	Right to equality
	_ (C)	Right to freedom of religion	(D)	Right to freedom against exploitation
84.	The articl	e which was considered as the	Soul of Indian	Constitution' by Dr. B.R. Ambedkar
	(A)	Article 19	(B)	Article 20
	(C)	Article 32	(D)	Article 22
85.	Who comp	piled the first dictionary in Mala	ayalam?	
	(A)	Dr. Herman Gundart	(B)	William Logan
	(C)	Arnos Pathiri	(D)	Ravarent Meed

86.	Who was	known as 'Kerala Lincoln'?		
	(A)	Sahodaran Ayyappan	(B)	Pambadi Jhon Joseph
	(C)	Moorkoth Kumaran	(D)	Pandit Karuppan
87.	Who estal	olished Sidhashramam at Alathur?		
	(A)	Brahmanandha Sivayogi	(B)	Vagbhadanandhan
	(C)	Swami Anandha Theertham	(D)	Vaikunda Swamikal
88.	Who cons	ecrated the famous Kundroli Gokarna	a nathe:	swaram temple in Mangaluru?
	(A)	Basavanna	(B)	Kumara Guru
	(C)	T.R. Krishna Swami Ayyar	(D)	Sree Narayana Guru
89.	Who is co	nsidered as the pioneer of muslim rer	naissand	ce in Kerala?
	(A)	Vakkam Abdul Khadar Moulavi	(B)	Muhammed Abdul Rahiman Sahib
	(C)	Sayyid Sanahulla Makti Thangal	(D)	Seethi Koya Thangal
90.	Who is kr	own as Kerala Vyasam?		
	(A)	Vallathol		
	(B)	Kerala Varma Valliyakoyi Thampu	ram	
	(C)	Ulloor S. Parameswara Ayyar		
	(D)	Kodungalloor Kunhikuttan Thampu	ıran	
91.	In which	year did 'Valmiki Ambedkar Awas Yo	jana' co	ome in to being?
	(A)	1991	(B)	2001
	(C)	2002	(D)	2004
92.	What doe	s DPAP stand for?		
	(A)	Drought Prone Area Programme		
	(B)	Drought Poverty Allivation Program	nme	
	(C)	Development Programme for the Ad	dult Per	rsons *
	(D)	Development Prone Area Programm	ne	

93.	In which year was Congress Lahore Session held?					
	(A)	192	0	(B)	1930	
	(C)	192	9	(D)	1942	
94.	Who won	US	pen 2015 for the Woman Singles?			
	(A)	Fla	via Penatta	(B)	Venus Williams	
	(C)	Ma	ri <mark>y</mark> a Sharappova	(D)	Sareena Williams	
95.	Which org	ganis	ation won Nobel Prize for peace in	2015	?	
	(A)	Gre	en peace	(B)	Amnesti International	
	(C)	Tur	nisian National Dialogue Courtat	(D)	Green Belt	
96.	When was	s Nat	ional Science day observed?			
	(A)	Feb	ruary 19	(B)	February 28	
	(C)	Ma	rch 4	(D)	January 12	
97.	Where is	Natio	nal Institute of Oceanography situ	ated?		
	(A)	Mu	mbai	(B)	Chennai	
	(C)	Kol	katha	(D)	Panaji	
98.	Who wrote	e Pov	erty in UnBritish Rule in India'?			
	(A)	R.P	Dutt	(B)	Dadabai Naoroji	
	(C)	M.N	I. Roy	(D)	R.C. Dutt	
99.	Study of I	nscri	ption is known as :			
	(A)	Nur	nismatics	(B)	Paliography	
	(C)	Pala	entology	(D)	Epigraphy	
100.	Channar r	ebell	ion is connected with :			
	(A)	Righ	nt to wear upper cloth	(B)	The right to use the road	
	(C)	The	right to go to school	(D)	To increase the wages	