	1.	A perfect black body is one which	
		(A) is black in colour (B) transmits the heat radiations	
		(A) is black in colour (B) transmits the heat radiations	
		(B) transmits the heat radiations (C) reflects all the heat radiations	
		(C) reflects all the heat radiations	
	1	(D) absorbs heat radiations of all wave lengths falling on it	
	2.	The range of slip for induction motor is normally	
		(A) .0 to 1%	
		(A) 0 to 1% (B) 0.1 to 0.5 %	
		(C) 2 to 5 % (D) 5 to 25 %	
	3.	The capacitor in a capacitor-start induction run ac motor is connected in series with	
		(A) starting winding (B) running winding	
Agr.		(C) sqquirel cage winding (D) compensating winding	
	4.	The time constant of an R.C. series circuit increases if the value	
		(A) Both R and C increased (B) Both R and C decreased	
	1	(C) R increased and C decreased (D) R decreased and C increased	
	5.	In a reaction turbine, the draft tube is used	
			0
		(A) to run the turbine full	
		(B) to prevent air to enter the turbine	
		(C) to increase the head of water by an amount equal to the height of the runner outlet above the tail race	
	1		
		(D) to transport water to downstream	
	6.	An isothermal process is governed by	0 0
		(A) Boyle's law (B) Charles' law	
		(C) Gay-Lussac law (D) Avogadro's law	
	1	[8-C-2] Was	

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7.	A 100	W, 100 V bulbs is to connect with 200 V supply. Which of the following arrangement is preferable?
in	(A)	Additional resistance in parallel with lamp
	(B)	Additional capacitance and inductance in series with lamp
	(C)	Additional inductance in parallel with lamp
	(D)	Additional resistance in series with lamp
8.	Worl	kdone in a free expansion process is
	(A)	zero (B) minimum
	(C)	maximum (D) positive
9.		is the real part and is imaginary part of admittance ?
	(A)	luneda
in		(2) Mesistance, impedance
10		
10.		primary function of the bias circuit is to
		hold the circuit stable at vin
	(B)	hold the circuit stable at VCC
	(c)	hold the circuit stable at the designed Q-point
	(D)	ensure proper gain is achieved
11.	The	frequency of the induced emf in the rotor circuit is maximum
	(A)	At standstill (B) At full load
10	(C)	At no load (D) At full torque
12.	Tra	nsformers are rated at kVA instead of kW because
	(A)	kVA is fixed whereas kW is depend on pf (B) total transformer loss depends on volt-amperes
	(C)	load pf is often not known (D) it has become customary
		[8-C-3]
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[8-C-4]

20.	The_	number of poles in a three-p	hase	induction motor at 50 Hz frequency running below
0	1500	Orpm.	*	
	(A)	4 and the	(B)	2
	(C)	6 cuijo	(D)	8 Guillo
21.	Ther	mal diffusivity is a		" Still
	(A)	function of temperature	(B)	physical property of a substance
0	(C)	dimensionless parameter	(D)	function of atmosphere
22.	The r	number of p-n junction in thyristor is	· O	
	(A)	1 Guija Gui	(B)	3 Guiso
	(C)	2 arus	(D)	4 Marile
23.	Whe	n transistors are used in digital circuits they	usual	ly operate in the
0	(A)	active region	(B)	breakdown region
	(C)	saturation and cutoff regions	(D)	linear region
24.	Whic	h of the following has the highest calorific v	alue ?	Cuio
	(A)	Peat	(B)	Lignite Nation
	(C)	Bituminous coal	(⊡)	Anthracite coal
25.	In a p	parallel resistive circuit, opening a branch wil	ll resu	lts in
	(A)	Change in total voltage	(B)	Increase in total power
	(C)	Change in branch voltage	(D)	Increase in total resistance
26.	A ma	nometer is used to measure	0	The state of the s
	(A)	low pressure	(B)	moderate pressure
0	(C)	atomospheric pressure	(D)	high pressure
27.	Whe	n a 3-phase alternator is suddenly short circu	uited	at its terminals, the initial value of short-circuit current
	is lim	ited by which one of the following	0,	Silve Silve
	(A)	transient reactance Xd'	(B)	synchronous reactance Xs
	(C)	sum of Xd", Xd' and Xs	(D)	sub-transient reactance Xd"
			[8-C-5	
10	•	The same of the sa		in in
		: alali	210	· ala
		الدء اللاء	17	

		GIN, IRIN,		JEIN JEIN
-	Non	NS.		Mai
28.	Whi	ch of the following is not a boiler mounting?		
	(A)	Blow off cock	(B)	Feed check valve
	(©)	Economiser	(D)	Fusible plug
29.	The	efficiency of Carnot cycle depends upon		Gulle
25.	OIL			13/1)
-	(A)	temperature limits	(B)	pressure ratio
	(C)	volume compression ratio	(D)	cutt off ratio
30.	On w	hich concept superposition theorem is based		at.il
	(A)	Reciprocity	(B)	Duality
	(C)	Non-linearity	(D)	Linearity
31.	White	ch of the following turbine is preferred for a s	necif	fic speed of 60 to 300 r.p.m. ?
-				
	(Ā)	Pelton wheel	(B)	Francis turbine
	(C)	Kaplan turbine	(D)	Jonval turbine
32.	The	mmf produced by single phase winding is		
-	(A)	pulsating and rotating with constant speed		Mal
2	(B)	pulsating and stationary	,u	
		constant in amplitude and stationary		N. W.
	(C)	N. S.		Olyap.
	(D)	constant in amplitude and rotating	(0)	Gille
33.	The	gate lead, in thyristor is welded to	- 7	13/1
.	(A)	P layer to which anode is connected	(B)	N layer nearest to anode terminal
	(C)	P layer nearest to cathode terminal	(D)	Outside N layer
34.	In o	rder to measure the flow with a venturimete	r, it is	s installed in
		- ijo		CINO CONTRACTOR OF THE PARTY OF
	(A)	norizontal line	(B)	inclined line with flow upwards
-	(C)	inclined line with flow downwards	(D)	, and the same of
			[8-C-	-6]
		dill distance dill		at.if
		- ilato		aliato.
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		Wainen Wat	30.	Watinging Watinging
35.	In a D	OC Machine, for Lap winding, the numbe	er of brush	
10	(A)	Double the number of poles	(B)	Same as the number of poles
	(C)	Half the number of poles	(D)	Two
36.		centre of gravity of the volume of the lie	Chill	Cill
30.		121		18/6
	(Ÿ)	centre of pressure	(B)	centre of buoyancy
1	(C)	metacentre	(D)	none of these
37.	The	sum of internal energy (U) and the prod	uct of pres	ssure and volume (p.v) is known as,
	(A)	workdone	(B)	entropy Gillo
	(C)	Enthalpy	(D)	internal energy
38.	Durii	ng the short circuit test on transformer,	core loss i	is negligible because
^	(A)	the power factor is high		Aller or the
111.		We what	1	at.il
	(B)	the current on ly side is very small	Childy	The state of the s
	(C) 	the voltage applied at hv is very low a	nd hence i	is mutual flux
	(D)	iron becomes fully saturated		My
39.	Whi	ch part of transformer is subjected to m	aximum h	eating?
in	(A)	core	(B)	frame
	(C)	oil 11121	(D)	winding
40.	The	gas turbine cycle with regenerator impl	roves	
	(A)	thermal efficiency	(B)	work ratio
	(C)	avoids pollution	(D)	fuel efficiency
41.		ich of the following is not a reaction tur	1 1	in him
71.		: Sign	101	Diver the restriction state and the state of
	(A)	Furneyron turbine	(C) (B)	Jonval turbine
	(C)	Thomson's turbine	(Q)	Pelton turbine
		1	10.0	

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1	Maria	No	,	Marc	Valo
42.	. The	e steam leaves the nozzle at a	_ '		ATTOM OF MA
	(A)	high pressure and a low velocity	(B)	high pressure and a high velocity	Sidnati A
	(C)	low pressure and a low velocity	(D)		was need to
43.	Wh	en the rotor of an induction motor is stand	Istill the	value of the slip is	
1	(A)	Zero	(B)	1/1g;	No.
	(C)	100	(D)	Infinite	
44.	The	difference between dry bulb temperature	and we	t bulb temperature, is called	
	(A)	dry bulb depression		wet bulb depression	cijol
	(c)	dew point depression	(D)	degree of saturation	ario
45.	The :	stator winding of 1-phase induction motor	is splitt	ed in two parts in order to	Vo
	(A)	improve efficiency	(B)	improve power factor	
	(C)	increase speed	(D)	develop starting torque	TO ASTRON
46.	Acco	rding to equation of continuity,	ľ —•.	Child	Cilo
2	(A)	$w_1a_1 = w_2a_2$	(B)	$W_1V_1=W_2V_2$	VSLIJO
	(Ç)	$a_1v_1=a_2v_2$	(D)	$a_1/v_1 = a_2/v_2$	reo di di
47.	A sin	gle phase fully controlled dual converter u	ises	Thyristors.	
	(A)	2 arati	(B)	8	. 0
	(c)	3016 Cine	(D)	6 Gillo	Gille
48.	The v	alue of gas constant (R) in S. I. units is		-Nath	VSIO
. 1	(A)	0.287 J/kgK	(B)	2.87 J/kgK	
	(C)	28.7 J/kgK	(D)	.287 J/kgK	1878 (S)
49.		-E configuration, an emitter resistor is use	ed for :	The second secon	
8.8		stabilization	(B)	ac signal bypass	CILLO
1	2	12		13/0	Nain
	(C)	collector bias	(D)	higher gain.	7
· V -			[8-C-8		
		, dill	A selection to	Y all.	·
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50.	The natural draught is produced by	
	(A) steam jet	(B) centrifugal fan
	(C) chimney	(B) centrifugal fan (D) both (a) and (b)
51.	અમે ત્યાં ગયા નહોતા - વાક્યનો પ્રકાર જણાવો.	Gull
	(A) નિષેધ	(B) & 512 11210
	(C) સંયુક્ત	(D) સંકુલ
52.	પ્રસિદ્ધ પ્રાગ મहેલ ગુજરાતમાં ક્યાં આવેલો છે ?	
	(A) પાટણ	(B) બાલાસિનોર
	(c) egg	(D) નવસારી
53.	લોકસાહિત્યકાર ઝવેરચંદ મેધાણીનું જન્મ સ્થળ	
	(A) શિહીર	(B) સોનગઢ
	(c) યોટીલા	(p) વાંકાનેર
54.	Gaga Wildlife (ગાગા વાઇલ્ડ લાઇફ) અભ્યારણ્ય	
	(A) કલ્યાણપુર	(B) ઉમરગામ
	(c) 825	19,
		(D) પાલનપુર
55.	પ્રખ્યાત કવિ નરસિંહ મહેતાનું જન્મ સ્થળ કયું ?	7: 7: 7: 7:
•	(A) તળાજા	(B) જુનાગઢ
	(c) કોટડા-સાંગાણી	(D) તલગાજરડા <mark>સ્પાપ્</mark> ર
56.	નીચેનામાંથી કઇ જોડણી ખરી નથી ?	Natural Mary
	(A) યુર્ણ	(B) સૂર્ય
•	(c) મૂર્ખ	(a) SIG
57.	SNDT મહિલા વિદ્યાપીઠની સ્થાપના કોણે કરી હ	d?
	(A) ધોન્કો કેશવ કર્વે	(B) શ્રીમતી નાથીબાઇ ઠાકરશી
	(၄) સાવિત્રીબાઇ ફૂલે	(D) વિમલા ક્રૌલ
		[8-C-9]
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58.	અમૂ	લ ડેરીની સ્થાપના કયા વર્ષમાં થઇ હતી ?		
	(A)	1951	(B)	1947
	(C)	1946	(D)	1952
59.	11	ાનામાંથી કયું બંધારણ માલિની છંદ દર્શાવે છે ?	,	ingin,
N	(A)	નનમયય	(B)	नननभय
	(C)	નમનથય		યયમનન
60.		લ્તળથી સાપુતારા ગિરિમથકની ઉંચાઇ આશરે •		(B ?
	(A)	750 મીટર		800 मीडर
	(C)		(D)	800 મીટર 1000 મીટર
61		નામાંથી કયું સુસંગત નથી ?		Ja
. 9	(A)	અનલ		પાવક
	(C)	alea		અખિલ
62.	બાને	તેમના પૈસા નિયમિત મળતા - આ વાક્યમાં	કયું (વેશેષણ રીત વાચક છે ?
	(A)	તેમના	(B)	નિયમિત
M	(C)	પૈસા	(D)	મળતા
63.	વૌઠા	નો મેળો ક્યાં ભરાય છે ?	r	
-	(A)	ધોળકા	(B)	જાફરાબાદ
	(C)	રોજુલા	(D)	સાવરકુંડલા
64.	"કુદંર	રતનું સુંદરધામ" શબ્દસમૂહ માટે એક શબ્દ અ	ાપો.	Native
12	(Ã)	બરફ	(B)	જડસુ
	(C)	પ્રકૃતિમંદિર	(D)	ગાસ
65.	માતૃ	તર્પણ માટે સિધ્ધપુરનું કયું તળાવ પ્રસિદ્ધ છે	?	ભેંદ વળાવ
	(À)	ગોપી તળાવ	(B)	બિંદુ તળાવ
N	(G)	ગોમતી તળાવ	(D)	લખીટા તળાવ
			8-C-	10]
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	1/31	0	MO METER FAIRERING	CHUMIN SHIP SHE
66.	નીચેનામાંથી કયો ઉપપદ સમાસ છે	?		
	(૧) સરોજ	(B) અઠવા(ડેયું <u>;</u> iંિ	
	(c) રણવીર	(D) વનશ્રી	digital	
67.	બક્સરનું યુદ્ધ કયા વર્ષમાં થયું હતું ર	Men,	Marucula	, ICIN
	(A) 1757	(B) 1764	Mal	Mala
	(C) 1857	(D) 1769		
68.	નીચેનામાંથી કયું ધાતુ સકર્મક છે ?	711	Ni.	y *
	(A) ખાવું સુર્વ	(в) આવવું	: State	
	(c) સ્વું	(p) salaq (D) saj	J.G.Lifa.	COL
69.	"ભૂલો ભલે બીજુ બધુ, માં બાપને ભૂ			" Maile
	(A) ફરીગીત			
	(દ) દોહરો	(B) ચોપાઇ	in	
70.	મુસ્લિમ લીગની સ્થાપના ક્યારે થઇ	્ (D) સોરઠો	S. S. S.	
	(A) 1905	S	"ICIN"	COL
	- No.	(B) 1906	North	Wall
	(C) 1930	(D) 1931		
71.	માછલી અને અન્ય મત્સ્ય ઉત્પાદનો			શરે કેટલી હતી ?
	(A) 3. 300 stls	(B) 3.3,000	ા કરોડ	· · · · · · · · · · · · · · · · · · ·
	(C) 3. 500 səls	(D) 3.5,000	। हरीड	Chil
72.	મોં પડી જવું એટલે	ail	March	March
	(A) ગમગીન થવું	(B) ખુશ થ ્	ą	
	(c) ઝંખવાણું પડી જવું	(D) ખૂબ જ		· · · · · ·
73.	કયા અંગ્રેજ વ્યક્તિએ રાસમાળા-1 ર	પને રાસમાળા-2 પ્રકાશિત કર	8? · · · · · · · · · · · · · · · · · · ·	1460 VA
	(A) સ્મિથ બોસવર્થ	(B) રોજર ર	મેલેક્ઝાન્ડર	CILL
	(c) એલેક્ઝાન્ડર ફાર્બસ	(D) વિલિય	Hala	March
		[8-C-11]		
	ill	Til.	Til.	
	iatat	idia	: ara	:3
	~·))	~.V)	2.01	C.()!

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	(G)	ill Cill		Marigul Marig
No	10	Mail		Mais Mais
74.	નીચે	નામાંથી કયું વિશેષણ માત્રાસૂચક નથી ?		
	(A)	આછું ા	(B)	બહ
	(C)	સાવ	(D)	uéu
75.	કાંતિ	લાલ વોરાએ કથા ક્ષેત્રમાં નામના મેળવી છે ?		"IGN"
NS	(A)	इ ल्म	(B)	b. b.
	(C)	જાદુગર	(D)	લોકગીત
76.	જૈન ્	ધર્મના પ્રથમ તીર્થંકર કોણ હતા ?		
	(Ý)	મહાવીર સ્વામી	(B)	સ્વામી અજીતનાથ
	(C)	ઋષભ દેવ	(D)	નેમીનાથ
77.0	ધઉં ર	માટે વિખ્યાત ભાલ વિસ્તાર કથા જિલ્લામાં આ	વેલ	83g
	(A)	કાઢાદ	(B)	અમદાવાદ
	(C)	529 il.	(D)	સુરત ાં
78.	ઇંગ્લી	ોશ ચેનલ તરનાર સૌ પ્રથમ ભારતીય કોણ હત	તા ?	Apple of the state
	(A)	આરતી સહા	(B)	સારા થોમસ
NS	(C)	મિહિર સેન	(D)	સામથા 🗥
79.	પૂજ્ય	ા શ્રી મોટા સંતનું મૂળ નામ કયું છે ?		
	(A)	શ્રી મધુસૂદન સરસ્વતી	(B)	શ્રી યુનીલાલ ભાવસાર
	(C)	શ્રી આત્માનંદ ક્રિષ્ના	(D)	શ્રી પ્રશાંત આચાર્ય
80.	નીચે	નામાંથી કઇ જાતિવાયક સંજ્ઞા છે ?		NOT THE REAL PROPERTY OF
No	(<u>A</u>)	કારીગર	(B)	ચોરી
	(C)	સફેદી		<u> </u>
81.		+ 914 =		Street a for All list in the St
		કલામિ	(B)	કલોમિ
	(c)	કલુમિ) કલોર્મી
W.		Mo		Mo.

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	તત્સમનો વિરોધી મુદ્ધ કર્યો ર	Manight Mangh
82.	તત્સમનો વિરોધી શબ્દ કથો ?	Mal
	(Å) <i>α</i> έωα	
	(c) ·તભવ	
83.	નીચેનામાંથી કયું સુસંગત નથી ?	Guigat Guigat
	(A) §\$1 (B)	લાકી પ્રિયામિક
	(c) AES	
84.	કયા લેખકે 'બુદ્ધિ વર્ધક સભા'ની સ્થાપના કરી હતી ?	2: 2: 2: 2:
		ગોવર્ધનરામ ત્રિપાઠી નંદશંકર મહેતા કરવામાં આવ્યો ?
		નંદશંકર મહેતા
85.	રાષ્ટ્રગાન તરીકે 'જન ગણ મન'નો સ્વીકાર કયા વર્ષમાં !	કરવામાં આવ્યો ?
	(A) 1949 (B)	1947
10	(C) 1948 (D)	1950
86.	City taxes are based on an estimate of the value of one	1950 's property. (Find suitable word for underlined) forecast
	(A) appraisal (B)	forecast
	(C) diagnosis (D)	outline Mari
87.	I hope it will not rain when they have started their jour	ney. (Find more suitable from given options for underlined)
10	(A) they will have started their journey (B)	they will start their journey
	(C) they start their journey (D)	No improvement
		ned part of each sentence. Below the sentence are given
	three possible substitutions for the underline part. If a	ony one of substitutions (a), (b) or (c) is better than the onse. If none of the substitutions improves the sentence,
	choose (d) as your response. Thus, a 'No improvemen	· · · · · · · · · · · · · · · · · · ·
88.	Hold hands of your child while crossing the road.	III Still
	(A) your child's hands (B)	your child's hand
	(C) hand of your child (D)	No improvement
	4.	H. H.
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	89.	You must accustom yourself with new ideas.	
ALIC.		(A) accustomed with	(B) accustom to
Polo		(C) accustom yourself to	(D) No improvement
	90.	The poor have to work morning to even	ning. (Fill in the blanks in question)
		(A) in	(B) to
.10		(C) from	(D) before
Star.	91.	*,*/P.	ant past, the area was a vast sea filled with creatures that abs
	100	calcium compounds from the water. (Find more su	uitable from given options for underlined)
		(A) absorbs	(B) absorbed
		(C) had absorbed	(D) No improvement
	92.	Technology <u>must use to feed</u> the forces of change.	(Choose the correct option for the underline part to make the
of of in		sentence grammatically correct)	at.II
10		(A) must be used to feed	(B) must have been using to feed
		(C) must use having fed	(D) must be using to feed
	93.	He has full facts but is deliberately hi	iding them. (Fill in the blank)
10		(A) up his sleeves	(B) in his sleeves
Stat.		(C) under his sleeves	(D) upon his sleeves
10	94.	Their faults are by their masters. (F	ill in the blank)
14, *** *		(A) Winked after	(B) winked at 10
		(G) winked out	(D) winked
* 10	95.	She a brief appearance at the end of the p	arty (Fill in the blank from the options)
Stor		(A) put on	B) put in
		(C) put across	D) put up
	die.	1.0	V.o.

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	_	Jarugu, Jarugu		Marigule Marigule	
96.	Whic	ch part of the given sentence below is incorre	ect ?	Mr. W.	
1.10	All of	fus / surprised / to see an old man of / sixty	takin	g part in the Marathon held last month.	
	(A)	All of us	(B)	surprised	
	(C)	to see an old man of	(Đ)	sixty taking part in the Marathon held last month.	
97.	I go swimming every morning. (Fill in the blanks in question)				
	(A)	to	(B)	for	
in	(C)	at at it	(D)	in dill	
98.	The	The preservation of peace is necessary. (Choose the correct / improved part for underlined)			
	(A)	maintenance of peace	(B)	establishment of peace	
	(G)	persuasion of peace	(D)	No improvement	
99.	If you wrote to me earlier, I would have easily solved your problem. (Find more suitable from given options for				
	und	erlined).	, o	C.J. Wat.III	
	(A)	were writing	(B)	had written	
	(C)	have written	(D)) No improvement	
100.	Whi	Which part of the given sentence below is incorrect?			
20	Of t	Of the two principles / he put forward, the last one / was the more / difficult to understand.			
	(A)) he put forward, the last one	
	(C)	was the more	(D	o) difficult to understand.	
		Way,		Main	
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