RRB Secunderabad Sr. Section Engineers Exam

(Held on 21-12-2014)

SECTION I **ENGLISH VERSION**

(B) Transmission line

(D) Cascade amplifier

When donor type impurity is added to a semi-conductor material

(A) electrons are generated and material is N-type (B) electrons are generated and material is P- type (C) holes are generated and material is called P-type (D) holes are generated and material is called N-type To increase bandwidth, the distributed amplifier utilizes

(A) common base configuration

(C) tuned Circuit

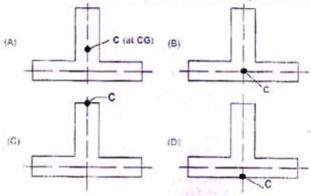
2.

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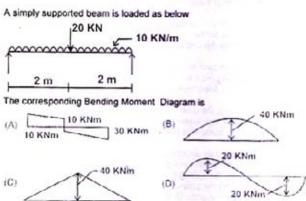
	(C)	WL ³ 192El	(D	$\frac{5}{384} \frac{WL^3}{EI}$
	(A)	WL ³ 48EI	(B)	WL ³
8.	The	maximum defection of a fixed other notations standard)	beam	carrying a central load W is equal
		reducing the grout shrinkage		
	(C)			
	(B)			
7.	Gyp (A)	sum is used as an admixture in accelerating the setting time	cem	ent grouts for
	(0)	moisture content of the materi	als be	eing mixed in the batch
	(C)	Controlling the quantity of each	h mat	in each batch according to the
		mixing		
	(A) (B)	Majahina accurately the guil	intity	of each material for a job before
6.		ching in concrete refers to Controlling the total quantity of	f each	hatch
	(C)	Straighten the timber	(0)	Name of the same o
	(A)		(D)	
5.		soning of timber is required to Soften the timber	(B)	Harden the timber
	(C)	Queen Post truss	(D)	Brick Masonry
		doors and windows	(B)	King post truss
4.	King	closers are related to		
	(C)	its current	(D)	the thermal voltage
	(A)	the applied voltage	(R)	the temperature
3.	A p-1	n junction diode's dynamic cond	luctan	ce is directly proportional to

15

9. In a thin-wall T-section, the shear centre C is located at the point shown in

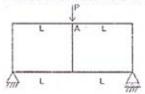


10.



- What is the radius of Mohr's circle in case of bi-axial state of stress ? 11.
 - (A) Half the sum of the two principal stresses
 - (B) Half the difference of the two principal stresses
 - (C) Difference of the two principal stresses
 - (D) Sum of the two principal stresses

12. What is the moment at A for a frame shown below :



Each vertical member has very large Moment of Inertia

(A) $\frac{PL}{2}$

(B) PL

(C) PL

(D) $\frac{PL}{16}$

 A structure has two degree of indeterminacy. The number of plastic hinges that would be formed at complete collapse is

- (A) D
- (B) 1
- (C) 2
- (D) 3

 For laminar flow between parallel plates separated by a distance 2h, head loss varies

(A) directly as h

(B) inversely as h

(C) directly as h2

(D) Inversely as h3

15. In Surveying, Offsets are

- (A) lateral measurements made with respect to main survey line
- (B) perpendiculars erected from chain lines
- (C) taken to avoid unnecessary walking between stations
- (D) measurements which are not made at right angles to the chain line

16. The true length of a line is known to be 200 m. When this is measured with a 20 m tape, the length is 200.8 m. The correct length of the 20 m tape is

(A) 19.92 m

(B) 19.98 m

(C) 20.04 m

(D) 20.08 m

17. Shear failure of soils takes place when

- (A) the angle of obliquity is maximum
- (B) maximum cohesion is reached in cohesive soils
- (C) ¢ reaches its maximum value in cohesionless soils
- (D) residual strength of the soil is exhausted

18.	Wh	at is the process of utilizing on lables known as ?	e data	link for transmission of a grou	ap of
		Encoding	(B)	Decoding	
		Demultiplexing	(D)		
19.	Inc	order to increase the range of a	valiene	de e	
	(A)	a low resistance is connected	t in par	allel	
		a low resistance is connected			
		a high resistance is connecte			
		a high resistance is connecte			
20.	The	internal resistance of the million	ammete	er must be very low for	
	(A)	high accuracy		ir must be very low lot	
		high sensitivity			
		minimum effect on the curren	t in the	circuit	
	(D)	maximum voltage drop acros	s the m	eter	
21.	in o	order to have fast, steady and	accura	to responses, the motors sh	ould
	hav	0			
	(A)	Critical damping			
	(B)	Under damping			
		a very high damping coefficie	nt		
		No damping			
22.	In c	ase of overdamping, the instru	ment w	ill become	
	(A)	Oscillating		dead	
	(C)	fast and sensitive	(D)	slow and lethargic	
23.		oference to Acid rain, what is o	orrect s	tatement.	
		The pH value is below 5.6			
	(B)	It occurs due to presence atmosphere	of sulp	shuric acid or nitric acid in	the
	(C)	Maximum acid is due to stron	g Carb	onic Acid	
	(D)	Acid rain affects ecosystem	**********	51X5.1.4915.	
24.	In G	lobal Warming, the major cont	ribution	is due to	
		Carbon emission	(B)	Agriculture	
	(C)	Deforestation	(D)	Industry	
25.	Whi	ch of the following mechanism	s is NO	T for removing particulate ma	atter
	from	i gas streams,			
		Gravitational settling	(B)	Centrifugal impaction	
	(C)	Electrostatic precipitation	(D)	Burning the particulate	
26.	Whi	ch one of the following is NOT	Biotic o	components of ecology.	
		Consumers		Producers	
	(C)	Decomposers	(D)	Climate	
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			10	2	003

27.	Mate	ch Col. X (Result) and Col. Y ((Cause)	
		Col. X		Col. Y
	(P)	Water pollution	1.	Combustion of fossil fuel
	(Q)	Air pollution	2.	Decaying of organic matter
		Noise pollution	3.	Pesticides
		Soil pollution	4	High decibel
		P-2, Q-1, R-4, S-3		P-1, Q-2, R-4, S-3
		P-3, Q-1, R-2, S-4		P 1, Q 3, R 2, S 4
	1-1	,	4-4	
28.	Part	of the Computer where data :	and inst	ructions are held is
	(A)	Register Unit	(B)	Accumulator
	(C)	Memory Unit	(D)	CPU
29.	In a	Computer, Assembler is		
000	(A)	a program that places progra	arms into	n memory and prepares them for
		execution		CONTRACTOR OF THE STATE OF THE
	(B)	a program that automate th	e trans	lation of assembly language into
		machine language		
	(C)	a program that accepts a pro	ogram w	ritten in a high level language
	,	and produces an object prog		
	(D)	is a program that appears to		a a source program if it were
		machine language		
20	1000	ch of the following is NOT a re	naleter l	n Computer 3
30.				Stack Pointer
		Accumulator		
	(C)	Program Counter	(D)	Buffer
31.	Whi	ch Network protocol is used to	send e	e-mail ?
	(A)	FTP (B) SSH	(C)	POP 3 (D) SMTP
32.	The	use of a cache in Computer :	system i	increases the
	(A)	available memory space for	the prop	oram
		available memory space for		
		available speed of memory a		
		addressing range of CPU		
33.			. Henry	and 32 data lines. If it uses 10 bits
33.				
		pcode, the size of its Memory		
		22 bits	7	24 bits
	(C)	32 bits	(D)	14 bits
34.	In a	microprocessor when a CPU	is inter	rupted, it
		Stops execution of instructio		
		Acknowledges interrupt and		es off subroutine
		Acknowledges interrupt and		
	(D)			or the next instruction from the
	(0)	interrupting device	Trains It	A DISTREAL HISTOCOON HUMA HIS
		interrupting device		

	follo	wing ?				
	(A)	Convert from serial to parallel	and vio	ce versa		
	(B)	Convert signals between TTL	and RS	S232 C stan	dard and	vice versa
	(C)	Convert from digital to analog	signals	and vice v	erea	
	(D)	To convert the computer to a	long di	stance com	nunicatio	on link
	(0)	To convert the compater to the	iong on			
36.		term digitization refers to				
		conversion of analogue into o				
	(B)	conversion of digital into anal	ogue			
	(C)	use of analogue form of elect	ricity			
	(D)	a form of changing physical of	uantitie	5		
37.	M/hi	ch is NOT a Wireless Technol	oav.			
91.		Blue Tooth	(B)	A conventi	onal tale	nhone
				Wi-Max	Cital taile	priorite
	(C)	Wi-fi	(0)	VVI-IVIOX		
38.	In a	n Engineering drawing, in d	louble s	stroke Goth	ic letteri	ng, which i
	corr	ect.				
	(A)	Letters are drawn thin				
	(B)	The lettering template is used	d to dra	w the outline	e of letter	r
	(C)	This is not preferred for ink d	rawings			
		This is having non-uniform lin				
39.	Mai	ch Col. X (Category) and Col.	V (Rec	ommended	Scale) in	reference t
30.			1 11100	Olline liaca	oudio) iii	
	ant	Engineering drawing.		Col. Y		
	-	Col. X		1:500		
	P					
		Full Scale	2.	10:1		
	R	Reducing Scale	3.	1:1		
			4.	1:20		
	(A)	P-4, Q-1, R-2, P-3		P-2.Q-		
	(C)	P-1, Q-3, R-2, P-4	(D)	P-2.Q-	1. R - 4	.Q-3
40.	If B	F is 1/60000 and distance to	be sho	wn on draw	ing is 7.	5 km, what
	the	length of line on drawing ?				
		12.5 cm (B) 8 cm	(C)	45 cm	(D)	10 cm
	-27000			the bushes		EVECT
41.		parabola can be constructed o	n a drav	wing by the	methods	EXCEPT
		Eccentricity Method		Rectangle		
	(C)	Parallelogram Method	(D)	Asymptote	Method	F.
42.	Wh	ich of the Statements is NOT	correct.			
0.000	(A)			netric projec	tion	
		Isometric scale is not used t				
		A square is seen as rectang				
	(0)	A rectangle is seen as paral	ielogran	n in isometr	in:	
	10)	A rectaligle is seen as parar	COLUMN TO SERVICE	THE RESERVE THE PARTY OF THE PA		

The MODEM is used with a personal computer to do which of the

35.

43.	A p	article moves aloure of its accelerat	ng a circular tion?	path	with	constant	speed	What is	the
	(A)	It is zero		(B)	it i	s Uniform	ř.		
	(C)	Its direction char	nges	(D)	Ita	magnitud	le chan	ges	

- 44 A body is at rest on the surface of the earth. Which of the following Statements is correct 7
 - (A) No force is acting on the body
 - (B) Only weight of the body acts on it
 - (C) Net downward force is equal to net upward force
 - (D) None of these is correct
- 45. The Specific Heat of the gas in an isothermal process is
 - (A) Zero

(B) Infinite

(C) Negative

- (D) Remains constant
- In a Simple Harmonic Oscillator, at the mean position 46
 - (A) Kinetic Energy is minimum. Potential Energy is maximum.
 - (B) Both Kinetic and Potential Energies are maximum
 - (C) Kinetic Energy is maximum, Potential Energy is minimum
 - (D) Both Kinetic and Potential Energies are minimum
- 47. Mirage is a phenomenon due to
 - (A) Reflection of light
- (B) Refraction of light
- (C) Total Internal reflection of light (D) Diffraction of light
- 48. Which of the following cannot be speed-time (v-t) graph of a body in motion ?









- 49 Avogadro's number, NA means
 - (A) number of protons in nucleus of an atom
 - (B) number of atoms in one gram atom of an element
 - (C) sum of the number of protons and the neutrons in the nucleus of an atom .
 - (D) number of protons or electrons in one gram of Sodium

50.	Iso	lopes of	the same	element ha	ve				
	(A)	Same	number of	neutrons					
	(8)	Same	atomic ma	955					
	(C)	Same	number of	protons					
			nt atomic						
51.	in :	a reactio	n betwee	n Zinc and	1 ladine	Zinc lo	dide is for	mod	What
474	bei	ng oxidis	ed?	The same same	, rounte,	2	and 15 101	meu.	AAIIGE
		Zinc io			(B)	lodide id	ons		
	(C)	Zinc At	om		(D)	lodine			
52.	Wh	ich of the	following	halogens i	s the be	st oxidisii	ng agent '	?	
	(A)	F ₂	(8)	Cl ₂		Br ₂	(D)		
53.	Nitr	ogen is t	ised to fill	electric but	bs beca	use it			
	(A)	is lighte	er than air		1-10165				
	(8)	makes	the bulb t	o give more	tight -				
	(C)	does no	of support	combustio	n				
		is non-			3				
54.	Fro	th floatat	ion proce	ss for the	concentr	ation of i	Oros is an	illuet	ration
	the	practical	application	on of	ocal incident	andir or .	Oles is all	musu	auton
	(A)	Adsorp	tion		(B)	Absorpt	ion		
		Coagul				Sedimen			
55.	The	process	of increa	sing fertility	of earl h	v earthur	orme ie ko	CILID TH	
	(A)	Organia	farming		/B)	Varmico	mposting	Own as	3
		Eutroph				Worm C			
56.	The	most ab	undant et	ement pres	ent in th	e nlante i			
		tron		cincin pics		Carbon			
		Nitroge	n		(D)		ese		
57.	Anı	enzvme t	orings abo	test					
				tion time	(B)	Increase	in reaction	n time	
	(C)	Increas	e in activa	ation energy	(D)	Reduction	on in activa	ation e	nergy
58.	Kidr	nevs are	not only o	organs of ex	cretion	their worl	k is sunnin	mente	nd hu
	(A)	Liver			(B)		o ouppie	**********	uby
		Large in	ntestine			Skin			
59.	The	langest	cell in the	body of an	animal i	6			
	(A)	Osteoc	/tes			Neuron			
			tophores				orpuscies		
60.	Vita	min need	led for blo	od coagula	tion is				
	(A)		(B)		(C)	K	(D)	C	

TSG001314

- The 1929 session of Indian National Congress is of significance in the 61. history of the Freedom Movement because the (A) attainment of Self-Covernment was declared as the objective of the Congress (B) attainment of Poorna Swarai was adopted as the goal of the (C) Non-Cooperation Movement was launched (D) decision to participate in the Round Table Conference in London was
 - taken
- 62. The movement that came to an abrupt end due to the Chauri Chaura incident was the (A) Wahabi Movement (B) Home Rule Movement.

 - (C) Non-Cooperation Movement (D) Civil Disobedience Movement
- 63. Match the following:
 - P) C.R. Das Q) Vallabh Bhai Patel
 - Abdul Ghaffar Khan R) S) Maulana Azad
 - (A) P-2, Q-1, R-4, S-3
 - (C) P-4, Q-1, R-3, S-2

- Bardoli Satyagraha
- 2. Swarajist Khilafatist 3.
- 4. Khudai Khidmatgar
- (B) P-2, Q-4, R-1, S-3 (D) YP-2, Q-1, R-3, S-4
- Money can be spent out of the Consolidated Fund of India 64.
 - (A) with the approval of the President
 - (B) with the approval of the Parliament
 - (C) with the approval of the CAG
 - (D) with the approval of the above authorities
- 65. Which of the following is not a condition for becoming a Citizen of India ?
 - (A) Birth

- (B) Descent
- (C) Acquiring property
- (D) Naturalisation
- The Oath of Office is conducted to the President of India by 66.
 - (A) The Speaker of Lok Sabha (B) The Chief Justice of India

 - (C) The Vice-President of India (D) The Prime-Minister of India
- 67. Dew is caused when
 - (A) humid air condenses on cool surface
 - (B) the sky is overcast at night
 - (C) the air is colder than the earth's surface
 - (D) the wind is too dry to cause rainfall
- Corbett National Park is in 68.
 - (A) Bihar

(B) Madhya Pradesh

(C) Uttarakhand

(D) Himachal Pradesh

69.	Whi	ich crop requires water-logging fo	or its	cultivation?
	(A)	Tea	(8)	Coffee
	(C)	Rice	(D)	Mustard
70.	One	can open a Savings Account in	India	except in
		A Nationalised Bank		A Cooperative Bank
	(C)	a Private Bank	(D)	Reserve Bank of India
71.	The	Term "Inside Trading" is related	to	
	(A)	Share Market	(B)	Horse racing
	(C)	Taxation	(D)	Public expenditure
72.	The	term MOM was in news in relati	on to	
	(A)	CAG report	(B)	Asian Games
	(C)	Mangalyaan	(D)	Election Commission
73.	Mer	deka Cup is associated with		
	(A)	International Table Tennis	(B)	Badminton
	(C)	Hockey	(D)	International Football
74.	Rec	ently, referendum for independen	nce w	vas held in
	(A)	Hongkong	(B)	Ireland
	(C)	Scotland	(D)	Germany
75.	Mat	ch Col. X (Sportsperson) and Co	I. Y (Sports):
		Col. X		Col. Y
	P.	Jitu Rai	1.	Badminton
	Q.	Heena Sidhu	2.	Wrestling
	R.	Jwala Gutta	3.	Shooting
	3.	Yogeshwar Dutt		
	(A)	P-3, Q-3, R-1, S-2	(B)	P-2, Q-3, R-1, S-2
	(C)	P-2. Q-2, R-1, S-3	(D)	P=3, Q=1, R=1, S=2
76.	Whi	ch of the following celebrities bassador of Telengana?	was	recently appointed as "Bran
	(A)	Deepika Pallikal	(B)	VVS Laxman
	(C)	Saina Nehwal	(D)	Sania Mirza
77.	EBC	DLA is a		
	(A)	virus disease confirmed in Wes	Afric	oa ·
		name of Tsunami		
	(C)	Name of anti-terrorist operation	in Ar	ab Country
		volcano in African Hills		

78.	BK	S lyengar, who died recent	ly, was a w	orid renowned
		Yoga Guru		Artist
	(C)	Folk Singer	(D)	Film Director
79.		ich Country has recently la ject"?	aunched *(Sandhi Inspired Tourist Attraction
	(A)	England	(B)	South Africa
	(C)	USA	(D)	Japan
80.	Wh	o among the following hachch Bharat Abhiyan"	as design	ed the logo and slogan of the
	(A)	Neelam Bhattacharjee	(B)	Anant and Bhagyashree
	(C)	Uday Kumar	(D)	Virman Kohli
81.	The	slogan of Asian Games I	ncheon 201	4 was
	(A)	Green, Clean and Friend	ship	
	(B)	We Cheer, We Share, W	e Win	
	(C)	Diversity Shines here		
	(D)	The Games of Your Life		
82.	"Th	e "Helmand Province" of A	fghanistan i	is famous for cultivation of
		Tobacco		Wheat
	(C)	Cotton	(D)	Opium
83.	Mai is_	n objective of newly and	nounced *F	Pradhanmantri Jan-Dhan Yojna
	(A)	to provide a bank accoun	t to every p	oor
		to provide a interest free		
		to provide financial assist		
	(D)	to provide free medical fa	cility to min	ority people
84.	Con	sider the following pairs :		
	1.	Garba : Gujarat		
	2.	Mohiniattam : Odisha		
	3.	Yakshagana : Karnataka		
		ch of the pairs given above		
	1	1 only		2 and 3 only
	(C)	1 and 3 only	(D)	1, 2 and 3

TSG001314 25 2003

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	(C) ₹288		(0)	₹336			
	(A) ₹192		200	₹240			
		all the six. Total	*		e perso	ins is :	
	their meals v	while the 6th per	rson sper	nt ₹80 mo	re than	the ave	
92.	Six persons v	vent to a hotel fo	r meals	Five of the	m span	t ₹32 eacl	1 on
	(C) 45		(D)	50.5			
	(A) 37.5		4	42.5			
		e students who le					
91.	school and the	of marks of 28 stu en the average inc	reased by	y 5. What is	50. 8 s the av	tudents left erage of m	the arks
	(C) 50		(D)	100			
	(A) 25		200	45			
	number of stu	dents in the group	was:		5 111 01	at group.	1116
90.		were distributed an					
	(C) 90 and 4	0	(D)	80 and 40			
	(A) 50 and 3		(B)	45 and 15			
	But, if 10 stu	n A, the strength or dents shift over many students as	from A to	B, both A	and 8	are equa	
89.		re are two section					
	(A) 15	(B) 20	(C)	25	(D)	30	
88.	them failed to ₹5. How many	s planned a trip. go and thus the o students attende	cost of foo	od for each			
	(A) 35	(B) 40	(C)	60	(D)	65	
87.	that each boy	2 was divided am gets ₹3.60 and ea	ech girl ₹2	.40. The nu	mber o	f girls is	way
	(0) 0000 00		(0)	00000			
	(A) 7500 cc (C) 8000 cc		19.7	7850 cc 9500 cc			
	pots is	container which ca	2241		he cont	ents of the	two

Devdas and Parinita are Principal literary works by

(B) Sarat Chandra Chatterjee

(D) Munshi Premchand

(A) Rabindra Nath Tagore

(C) Satyajit Ray

85.

94.	X is	40 years o neir ages 3	old and \ :5?	/ is 60 ye	ars old. F	low many y	ears ago v	vas the ratio
	(A)	5 years			(B)	10 years		
	(C)	20 years			(D)	37 years		
95.		neasuring t					and 3% in	excess are
		8.35%				7.15%		
	(C)	8,15%				6.25%		
96.		frame is a		60, there	is a loss	of 15%: F	or a profit	of 2%, the
	(A)	₹70	(B)	₹72	(C)	₹75	(D) ₹8	35
97.		selling 10 cent is	O pens.	a shopk	reeper ga	ains price	of 20 pen	s, His gain
	(A)	25%	(B)	20%	(C)	15%	(E)) 12%
98.	1					gets $\frac{2}{3}$ of verticely		and B gets
	(A)	₹75, ₹325	₹280		(B)	₹80, ₹120	, ₹480	
	(C)	₹90, ₹210	0867.			₹100, ₹20		
99.		2				imes as mu		vests and Y
	(A)	3:9:2			(B)	6:10:15		
	(C)	5:3:2			(D)	6:2:3		
						· Common		
100.	3 da	nan, a won nys. If a mo n will a won	in alone	can do it	in 6 days	and a boy	te a piece alone in 1	of work in 8 days, how
		9 days			(B)	21 days		
	(C)	24 days			(D)	27 days		

The sum of two numbers is 2490. If 6.5% of one number is equal to 8.5%

(B) 1380

(D) 1250

of the other, the greater number is :

93.

(A) 1079

(C) 1411

102.	Torre	traine approach e	ach other at 30 km	hr and 27 kn	n/hr from two places
102.	342	km apart. After ho	w many hours will t	hey meet ?	
	(A)	5 hrs.	(8)	6 hrs.	
	(C)	7 hrs	(D)	12 hrs.	
103.	The pass	speed of a 150 m a 600 m long pla	long train is 50 km tform ?	ph. How mu	ch time will it take to
	(A)	50 sec	(B)	54 sec	
	(C)	60 sec	(D)	64 sec	
104.		ow many years, a um ?	sum will be thrice	of it at simple	e interest @10% per
	(A)	15 years	(B)	20 years	
	(C)	30 years	(D)	40 years	
105.	A si	um of money amo of interest per an	unts to ₹9680 in 2 y	years and ₹1 od basis is	0848 in 3 years. The
	(A)	5%	(B)	10%	
	(C)	15%	(D)	20%	
			1		
	The	perimeters of a che square field is	circular field and a s 2100 m ² , the area	square field a of the circula	are equal. If the area r field will be
106.	of t				
106.		15500 m ²	(B)	15400 m ²	
106.	(A)	15500 m ² 15200 m ²		15400 m ² 15300 m ²	
106.	(A) (C)	15200 m²		15300 m ²	its volume is
	(A) (C)	15200 m ² ne height of a cone	(D)	15300 m ²	its volume is
	(A) (C) If th	15200 m ² ne height of a cone	(D) is doubled, then the	15300 m ² e increase in	its volume is

101. A tap can fill a cistern in 8 hours and another tap can empty it in 16 hours. If both the taps are open, the time taken to fill the tank will be

(A) 8 hrs.

(B) 10 hrs.

	ence to his	starting	point ?		in which o	mecaon
	West		(B)			
(C) 7 km	East		(D)	7 km We	est	
Direction Correct or	s: (Quest	tion No. ven class	118 & C	uestion 1	No. 119):	Choose
(A)	0)		(B) (00	
(C)	00			(D) (C	2	
(0)	0		3.00	1016	9	
. Men, Wo	men, Hum	an Beings				
. Doctors, L	awyers, P	rofession	ale			
· Lociois, L						
	CONTRACTOR OF THE PARTY OF THE					
. Select the	option to	replace ?	in Problem	Figure to	continue t	he patte
	option to	replace ?		Figure to	continue t	he patte
. Select the	option to	replace ?		Figure to	continue t	he patte
. Select the	option to	replace ?		Figure to	?	he patte
Answer F	option to	replace ?	in Problem		?	he patte
. Select the Problem	option to	replace ?			?	he patte
Answer F	option to	replace ?	in Problem		?	he patte
Answer F	option to	replace ?	in Problem		?	he patte
Answer F	option to	replace ?	in Problem		?	he patte
Answer F	option to	replace ?	in Problem		?	he patte

116. D is taller than C and E. A is not as tall as E. C is taller than A. D is not as

(B) D

(D) C

tall as B. Who among them is next to the tallest one?

(A) A

(C) B or D

	(C)	Waviness	(D)	Cut off
127.	pati (A)	tern produced by Roughness	machining operation (B)	ection of the predominant surface 7 www.previouspapers.in Lay
	and (A) (C)	sidered in the set drill jig bushes u Wear Resistand Shear Strength	lection of material fo sed in jigs and fixtun ce (B) (D)	or the manufacture of locating pin es ? Flasticity Tensile Strength
	(A) (B) (C) (D)	Complete comb Incomplete com dry products of air is used for the	sustion of fuel takes proustion of fuel takes combustion are analoge combustion	place
124.	equ (A)	ductivities K1 an	nd K ₂ . For equal the anductivity of the state (B)	ers of different materials havin hickness of the two layers, th b will be $K_1 K_2$ $\frac{K_1 + K_2}{K_1 K_2}$
123.	tem (A) (B) (C)	or and allowed to	o reach a final state is specified by the hermodynamics ermodynamics rmodynamics	are brought into contact with eac of thermal equilibrium. The fina
122.	The (A) (B) (C)	specific volume of first increases as		d from 0°C

2) High pressures

(B) 1 and 3

Consider the following Statements.
 A real gas obeys perfect gas law at very

Which of these Statements is/are correct?

1) High temperatures

3) Low pressures

(A) 1 alone

	2.5			
129.	Who	at is the main shaft of an	engine that o	controls the movement of piston
	(A)	axle	(B)	drive shaft
	(C)	crank shaft	(D)	cam shaft
130.	For	small and intricate castin	ngs, the sand	grains should be
	(A)	fine	(B)	medium -
	(C)	coarse	(D)	rounded
131.	In S	ubmerged Arc Welding,	the arc is pro	duced between
	(A)	a bare metal electrode	and work pie	DR
	(B)	a tungsten electrode an	nd work piece	
	(C)	a carbon electrode and	work plece	Market and Australia and Australia
	(D)	any type of electrode or	an be used	
132.	For	Welding process, which	is NOT corre	ct.
	(A)			ea of the face of Electrodes
	(B)	Metal fusion takes place	e by raising t	he temperature to fusion point
	(C)			etals pieces are joined in Elasti
	(D)	Gas flame is used as h	eat source in	gas welding
133.	In o	verhead welding position	, which is co	rrect option.
	(A)	work pieces lie flat, wel	ding is done	from upper side of joint
	(B)	welding is performed fro	om the under	side of joint
	(C)	this position is most sin	nple operation	as compared to flat position
	(D)	most suitable for Subin	erged Arc pro	ocess
134.	Soft	iron is used in the manu	facture of ele	ectromagnets because of its
		high saturation magnet		
	(B)	low retentivity only	STATE OF STATE	
	(C)	low coercive field only		
	(D)	high saturation magneti	isation, low re	etentivity and low coercive field
135.	Whi	ch of the following is pie:	zo-electric ma	aterial ?
	(A)	Quartz	(B)	Silica Sand
	(C)	Corundum	(D)	Polystyrene
TSG0	0131	4	32	2

128.

Steady State Heat flow implies (A) negligible flow of heat

(B) no difference of temperature between the bodies

(D) uniform rate in temperature rise of a body

(C) constant heat flow rate i.e. heat flow rate independent of time

TSG	0013	14	33	2003
		reheaters induced draft fans	(B) (D)	superheaters Electrostatic precipitators
143.	pov	reduce air pollution due to sr ver plants.		
	(A) (B) (C)	reduce hysteresis loss reduce armature copper losses reduce eddy current increases its surface area for b		dissipation of heat
142.			ne is	usually made of laminated sheets
141.	freq (A)	en a given transformer is opera juency, its tron losses are reduced Core flux density is increased	(B)	at its rated voltage with reduced Flux density remains unaffected Core flux density is reduced
140.	(A) (B) (C)	aterial is said to have become s its resistance becomes negativ its resistance becomes very sn its resistance decreases its resistance becomes zero	e	conductor when
139.	(A)	iprocal of magnetic permeability Conductance Reluctivity	(B)	Susceptance Permittivity
	prop (A)	ortional to T only I ² RL	(B)	I ² RT IRL ²
138.				produced by a Current I while e R for a Length L and Time T, is
	(C)	Conductors are in resonance Conductors repel each other Voltage between two conductor	rs inc	reases
137.		o conductors carry current in the Conductors attract each other	sam	e direction
	4. 4	Star-Delta Delta-Delta	4-7	Star-Star Delta-Zigzag
136.	pha			put and corresponding input line

144,	Match Col. X (Instrument) with Col. Y (Use)							
		Col. X		Col. Y				
	P	Transformer	1	Measures Current				
	Q	Rectifier	2.	Insulation Resistance				
	R	Ammeter	3.	Steps down Voltage				
	S	Megger meter	4.	Converts AC input to Unipolar output				
	(A)	P-3, Q-4, R-1, S-2	(B)	P-3, Q-1, R-4, S-2				
	(C)	P-4, Q-3, R-2, S-1	(D)	P-3, Q-1, R-2, S-4				
145.	FET			and report of columns and				
	(A)	high input impedance and is cu						
	(B)	low input impedance and is vol						
	(C) (D)	high input impedance and is vo low input impedance and is cur	rent	controlled				
146.	Which gate corresponds to the action of parallel switches?							
	4. 19	AND gate	8.7.5	OR gate				
	(C)	NAND gate	(D)	NOR gate				
147.	Which of the following contributes to harmonics distortion in amplifiers?							
	(A)	Non-linearity in active device						
	(C)	presence of noise	(0)	positive feedback				
148.								
	(A)) The magnetic amplifier is device for amplifying electrical signals						
		A transistor is composed of semiconductor material						
		p-n diode is based upon p-n ju						
		Potentiometer controls audio s						
149.	tap	The main advantage of a bridge rectifier over full wave rectifier with centre tapped transformer is						
	(A) less ripple							
	(B)			The second of th				
	(C)		apoit	is nair				
	(D)	PIV of each diode is double						

(D) resistance values

(A) low values of current and high values of current

150. Wheatstone bridge is used to measure

(B) high values of current(C) Low value of voltages

RRB SSE YELLOW(TSG001314) KEY									
1.A	2.C	3.C	4.D	5.D	6.D	7.B	8.D	9	10.B
11.B	12	13.A	14.D	15.A	16.A	17.A	18.D	19.D	20.C
21.A	22.D	23.A,D	24.C	25.D	26.D	27.A	28.C	29.B	30.D
31.D	32.C	33.C	34.D	35.C	36.A	37.B	38.B	39.B	40.A
41.D	42.B	43.C	44.C	45.D	46.C	47.C	48.C	49.B	50.C
51.C	52.A	53.C	54.B	55.B	56.B	57.A	58.A	59.B	60.C
61.B	62.C	63.D	64.B	65.C	66.B	67.A	68.C	69.C	70.D
71.A	72.C	73.D	74.C	75.A	76.D	77.A	78.A	79.B	80.B
81.C	82.D	83.A	84.D	85.B	86.B	87.B	88.B	89.A	90.A
91.A	92.C	93.C	94.B	95.C	96.B	97.B	98.B	99.D	100.A
101.C	102.B	103.B	104.B	105.B	106.B	107.B	108.B	109.A	110.C
111.B	112.A	113.A	114.C	115.A	116.B	117.B	118.D	119.D	120.C
121.C	122.B	123.A	124.C	125.D	126.C	127.C	128.C	129.B	130.A
131.A	132.B	133.C	134.C	135.A	136.A	137.A	138.B	139.C	140.B
141.C	142.C	143.D	144.A	145.C	146.B	147.A	148.D	149.B	150.D