R.R.B. SECUNDERABAD MATERIAL SUPERINTENDENT

PREVIOUS PAPER – 2014

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1.	If Arun is Chetna's son, Chetna and Kavitha are sisters, Jyothi is Kavitha's mother, Parth the son of Jyothi, then				
	1) Parth and Arun are Co	ousins			
	2) Parth is maternal uncl	e of Arun			
	3) Kavitha is Arun's grar	udmother			
	4) Parth is maternal uncl	e of Kavitha			
2.	Find the next number in	the series:			
	10, 100, 200, 310,				
	1) 430	2) 510	3) 400	4) 420	
3.	A man is facing North. I right turn. Which direction	He starts walking on a cir on is he facing now?	cular path, completes $\frac{3}{4}$ t	h of the circle and takes a	
	1) East	2) West	3) North	4) South	
4.	In a certain code MONK	EY is coded as XDJMNL	How would the TIGER	be coded?	
	1) SDFHS	2) UJHFS	3) QDFHS	4) SHFDQ	
5.	Find the number that wil	l replace the:			
	1, 2, 3, 5, 8, 13,				
	1) 20	2) 21	3) 22	4) 23	
6.	How many cubes are the	re in the figure?			
	1) 6	7			
	2) 8	$\overline{\langle}$			
		\mathbf{A}			
	3) 9	\mathbb{X}			
	4) 10	\sim			
7.	Ramesh goes 4 km South, then 8 km West, then 6 km North, then 8 km East and then 1 km South. How far is Ramesh from the starting point?				
	1) 2 km	2) 1 km	3) 0 km	4) 8 km	
8.	'Crime' is related to 'Cou	rt' in the same way as 'Di	sease' is related to		
	1) Doctor	2) Hospital	3) Medicine	4) Punishment	
9.	Two tangents are drawn the two	to a circle of radius 10 cm tangents?	a. The tangents are parallel	to each other. What is the	
	1) 10 cm	2) 20 cm	3) $10\sqrt{2}$ cm	4) $10\sqrt{3}$ cm	

10.	Match the following:			
	1. Cell	a. Animal cell		
		b. Plant		
	2. ATP	a. Mitochondria		
		b. Genes		
	1) 1–(a), 2–(a)	2) 1–(a), 2–(b)	3) 1–(b), 2–(a)	4) 1–(b), 2–(b)
11.	Synapses and Dendrites	are associated with		
	1) Cortex	2) Epithelium	3) Retina	4) Nerve-cells
12.	A tissue that connects m	uscle to bones in human	s is called	
	1) Tendon	2) Fibre	3) Axon	4) Femur
13.	The human population of	f globe is approximately	,	
	1) 500 million	2) 600 million	3) 6 billion	4) 7 billion
14.	Hematology is the study	related to		
	1) Plant reproduction sy	stem	2) Blood	
	3) Food habits of animal	ls	4) Bones	
15.	Which of the following	is not a food borne disea	se?	
	1) Amoebiasis	2) Cholera	3) Influenza	4) Hepatitis A
16.	Hadrons and Baryons ar	e		
	1) Industrial chemicals			
	2) Types of subatomic p	articles		
	3) Alkalies			
	4) Cyclotrons			
17.	A pheromone secreted b	y an animal		
	1) influences the behavior	our of animals of same s	pecies	
	2) protects it from preda	tors		
	3) attracts these victims	for its food		
	4) None of the above			
18.	The formula $R = \frac{R_1 R_1}{R_1 + R_1}$	$\frac{R_2}{R_2}$ represents		
	1) series connection		2) parallel connection	
	3) bridge connection		4) linear connection	
19.	In the circuit given below	w, what is the current flo	wing in the 6 Ω resistance	;
	1) 0.22 A	2Ω 6	Ω	
	2) 0.55 A		///	
	3) 2.22 A 10 V		$\gtrless 2\Omega$	
	4) 2.775 A			

20	A transformar core is me	do of laminations		
20.	1) to increase the electric	al conductivity of the co	F O	
	 to increase the permanant 	bility of the core		
	2) to increase the permea			
	4) to increase addresses	uta and immuno affician		
01	4) to increase eddy curre	this and improve efficience	C 220 M refers to the	X7-1(
21.	Domestic supply of elect	The first the first term of the first term of the first term of the first term of ter	2 220 v refers to the	voltage.
	1) rms value	2) peak value	3) mean value π	4) minimum value
22.	is at its peak Voltage is z	re is a phase difference of	$\frac{1}{2}$ between current and	voltage. When the current
	1) resistive	2) inductive	3) capacitive	4) can't say
23.	An unknown DC Voltag first?	e is be measured. Which	measuring range in the	multimeter will you select
	1) 500 V	2) 50 V	3) 5 V	4) 0.5 V
24.	The earth conductor prov	vides a path to ground for		
	1) circuit current	2) leakage current	3) over current	4) high voltage
25.	• Distance between two buildings is 100 m. A surveyor is standing at a distance of 10 m from the taller building on a line joining them. If the angle of elevation measured by him for the taller building is 1.5 times the angle of elevation of the smaller building what is the height of smaller building?			
	1) 45.3 m	2) 45.67m	3) 46.22 m	4) Data insufficient
26.	A galvanometer is conve	rted to a voltmeter by		
	1) adding a high resistan	ce in series with the galva	anometer	
	2) adding a low resistance	e in parallel with the gal	vanometer	
	3) increasing the number	of windings of galvanon	neter coil	
	4) decreasing the number	r of windings of the galva	anometer coil	
27.	A dynamometer is an equi	uipment used to measure		
	1) current and voltage of	generator	2) dynamic loads over o	cyclic times
	3) fatigue propagation du	e to dynamic loads	4) torque and power of	an engine
28.	Interferometers are used	for measurement of		
	1) changes in life cycle p	processes due to radiation		
	2) effect of interference	of wearing of one mechan	nical on the whole machin	ne
	3) measurement of very	small displacements and	surface irregularities	
	4) chemical analysis of c	compounds		
29.	Sclerometer is used by			
	1) Astronomers		2) Civil Engineering Su	irveyors
	3) Doctors		4) Metallurgists	
30.	The word Brinell is asso	ociated with		
	1) soil testing		2) tensile testing	
	3) hardness testing		4) testing of seasoning	of wood

31.	1. What is carbon footprint?			
	1) measure of radioactiv	ity from a fossil.		
	2) environmental impact	because of used cells an	d batteries.	
	3) total sets of green hou	use gas emissions by orga	nization, individual etc.	
	4) amount of carbon con	tent in the organic compo	ounds.	
32.	Ashoka in the 13 th year kept land records and ca	of his coronation, appoir rried out justice. These of	nted a special type of offic fficers were called	er who surveyed the land,
	1) Amatyas	2) Samahartas	3) Rajukas	4) Chalukyas
33.	Who built the Jagannath	a temple of Puri?		
	1) Ananavarmana Choda	nganga	2) Narsimhavarmana	
	3) Aadiyavarmana		4) Parameshwaravarma	na
34.	An individual who is not a member of either house of the Parliament can be appointed as a member of the Council of Minister, but he hand to become the member of the either house in			appointed as a member of puse in
	1) 3 months	2) 6 months	3) one year	4) 2 years
35.	The term 'Republic' used	l in the preamble of the C	Constitution of India impli	es
	1) That the head of the state is hereditary			
	2) That the head of the state is a constitutional ruler			
	3) That the head of the state is an elected representative			
	4) None of the above			
36.	The Hindustan Shipyard	Limited is located at		
	1) Goa	2) Cochin	3) Mumbai	4) Visakhapatnam
37.	In India, what is the min	imum permissible age fo	r employment in a factory	?
	1) 14 years	2) 16 years	3) 18 years	4) 21 years
38.	Lunar Eclipse occurs on	ly on a		
	1) First quarter day	2) New moon day	3) Full moon day	4) Last quarter day
39.	Mirages generally occur	in		
	1) Mountains	2) forests	3) deserts	4) sea
40.	Which states is known for	or its sandalwood carving	gs?	
	1) Maharashtra	2) Madhya Pradesh	3) Kerala	4) Karnataka
41.	If circumference of a cir	cle is increased by 10%,	the area of the circle will	increase by
	1) 5%	2) 10%	3) 20%	4) 21%
42.	A cylindrical shaped me be assumed to remain th	tal piece is converted inte e same	o a wire. Out of the follow	wing, which parameter can
	1) volume		2) cross-selection area	
	3) length		4) diameter	
43.	What is the probability of	of getting 3 aces three car	ds are drawn from a set of	f 52 playing cards?
	1) 52 ³	2) $\frac{1}{52^3}$	3) $\frac{1}{52!}$	$4) \frac{4 \times 3 \times 2}{52 \times 51 \times 50}$

44.	In a class of 40 students, 25 are sports persons and 25 are mathematicians. What is the probability that the monitor of the class is both a sports person and a mathematician?			
	$1)\frac{1}{40}$	$2)\frac{1}{25}$	$3)\frac{1}{4}$	$4)\frac{1}{50}$
45.	Sum of two numbers is	15 and sum of their recip	procals $\frac{15}{56}$. The two number	pers are
	1) 4, 11	2) 5, 10	3) 6, 9	4) 7, 8
46.	If α , β are the roots of α	quadratic equation $x^2 + x$	$x + 1 = 0$, then $\frac{1}{\alpha} + \frac{1}{\beta}$ is	
	1) –1	2) 1	3) 0	4) None of these
47.	Value of $\sqrt{6} + \sqrt{6} + \sqrt{6}$	6 + is		
	$1)\frac{5}{2}$	2) -2	3) 3	4) 4
48.	If a, b, c, d, e and f are	in arithmetic progression,	, then $e-c$ is equal to	
	1) 2(b–a)	2) c-b	3) 2(f-d)	4) 2(d–b)
49.	In coordinate geometry,	distance of the point (-4)	4, 3) from origin is	
	1) 3	2) 4	3) 5	4) 25
50.	A class of compounds occurring fats when mo	which are used in increa lecular weight is high in	ses when molecular weig the series, is called	ht is low and are naturally
	1) amino		2) aromatic compounds	5
	3) esters		4) organic acids	
51.	If the mass of Sun, earth gravity on earth for one	and distance between the revolution round the sun	em is respectively M, m an n is	d r; work done by the Sun's
	1) zero	2) $\frac{\text{G Mm}}{\text{r}^2}$	3) $\frac{\text{G M.m}}{\text{r}}.2\Pi$	4) $\frac{\text{G Mm}}{r^2}.2\Pi$
52.	The choke of a tube light	nt works on the principle	of	
	1) bi-metallic	2) capacitance	3) inductance	4) ionization
53.	In the figure below, what gravity (assume pulley a	at is the acceleration of b and surfaces are smooth)	ody with mass M_2 , given	g is the acceleration due to
	1) g			
	2) $\frac{m_1 + m_2}{m_1}$ g	m ₂	9	
	3) $\frac{m_1 + m_2}{m_2}$ g			
	4) $\frac{m_2}{m_1 + m_2}$.g		m ₂	
54.	Which of the following	statements is correct?		
	1) Speed of light in vac	uum is 3×10^8 m/s		
	2) Speed of light is diffe	erent for different colours	5	
	3) Speed of light is diffe	erent in different media		
	4) All of the above			

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55.	5. In Heisenberg's Uncertainity principle, the uncertainity of momentum and position of a particle can be				
	1) reduced using smalle	r wavelength of probing	light		
	2) reduced using larger	wavelength of probing lig	ght		
	3) reduced using high end	nergy probe particles acco	elerated by cyclotron		
	4) can't be reduced as it	is fundamentally			
56.	A fuse should be connect	cted in in the	conductor.		
	1) series, neutral	2) series, live	3) parallel, neutral	4) parallel, live	
57.	Equipment earthing give	es protection against			
	1) voltage fluctuation		2) overloading		
	3) electric shocks		4) high temperature of	conductors	
58.	A generator is related 2	KW 200 V.D.C. It can su	apply load current of		
	1) 4000 A	2) 100 A	3) 10 A	4) 4 A	
59.	The term PCB stands for	or			
	1) Polyethylene Card Board2) Printed Circuit Board		rd		
	3) Printed Card Board		4) Polythene Circuit B	oard	
60.	Color bands for 1.5 Ohms resistor will be				
	1) Brown, Green, Brow	n	2) Brown, Green, Golden		
	3) Brown, Golden, Gree	en	4) Brown, Golden, Golden		
61.	A frequency tuning elec	tronic circuit would cons	nsist of		
	1) an inductor and a cap	pacitor	2) an inductor and a resistor		
	3) two inductors		4) two capacitors		
62.	Main element of a filter	that reduces the A.C. con	mponent of the output is		
	1) resistor	2) inductor	3) transformer	4) capacitor	
63.	For stabilizing the gain	of an amplifier			
	1) positive feedback is u	ised	2) no feedback is used		
	3) negative feedback is	used	4) input voltage is vari	ied	
64.	A stereophonic system i	requires			
	1) two separate microph	nones	2) two separate amplif	iers	
	3) two separate speakers	S	4) all of the above		
65.	Which of the following	statements in incorrect			
	1) Microsoft windows is	s GUI			
	2) Linux is GUI				
	3) More than 5000 KB	data can be stored in a D	VD		
	4) A 1 TB flash drive ca	in store 2 million files each	ch of size 1 MB		
66.	How many lines can be perpendicular to each of	e said to exist or be draw ther?	vn in a three dimensional	space, which are mutually	
	1) 2	2) 3	3) 4	4) 8	

67.	• A third angle orthographic projection of an object is given below. What is this object?			
	1) Triangle	:	C	5
	2) Trapezium			
	3) Cone			
	4) Frustrum of a cone			
68.	In an engineering drawi	ng it is written scale 1 cm	n = 100 m. Which ratio do	es it correspond to?
	1) 1 : 100	2) 1 : 1000	3) 1 : 10,000	4) 1 : 1,00,000
69.	In machine drawing, a '	sectional view' cut portion	n is shown by	
	1) diagonal hatching	2) dots	3) cross marks	4) red colour
70.	For complete description orthographic projections	on of a component, a ma	chine drawing would req	uire minimum how many
	1) 1	2) 2	3) 3	4) 4
71.	Hirakud dam has been b	ouilt on the river		
	1) Cauvery	2) Mahanadi	3) Krishna	4) Yamuna
72.	Who received the first N	Nobel Prize in Physics in I	India?	
	1) Dr. C.V. Raman		2) Dr. Hargobind Khura	ana
	3) Prof. C.N.R. Rao		4) Prof. Narlikar	
73.	• Which of the following books was banned by all Muslim countries and India?			ia?
	1) The Shame Within		2) Discovery of India	
	3) Satanic Verses		4) Beyond Expanse	
74.	IGMDP, in Indian conte	ext, is a		
	1) Management Develop	pment Programme	2) Monetary Policy	
	3) Missile Programme		4) Marketing Policy in	Management Studies
75.	Who is the Secretary Ge	eneral of United Nations?		
	1) David Camaron	2) Stephen Harper	3) Jung-Hong-Won	4) Bank Ki-Moon
76.	With reference to water	pollution, BOD means		
	1) Biochemical Oxygen	Dilution	2) Biochemical Oxygen	Demand
	3) Bio Organic Dissolut	es	4) Basic Organic Disso	lutes
77.	Approx, percentage of c	oxygen in Earth's atmosph	ere is	
	1) 17%	2) 21%	3) 25%	4) 33%
78.	In the context of genetic	cs, DNA stands for		
	1) Di–Neuro Acid		2) Daily News Analysis	3
=0	3) Detoxic Neuro Acid		4) Deoxyribo Nucleic A	AC10
79.	In the context of Inform	ation Technology, OCR n	aneans	-1
	1) Optical Character Re	cognition	2) Octagonal Cyclic Re	cnarge
	3) Octadecimal Cyclic I	Regeneration	4) Optical Character Re	egeneration

80.	Number of points on x-axis which are 2 units away from the point (4, 1) are			
	1) 0	2) 1	3) 2	4) infinite
81.	If the ratio of height of t	ower to its shadow is 1:	$\sqrt{3}$ the angle of elevation	of Sun is
	1) 30°	2) 45°	3) 60°	4) 87 $\frac{1}{2}^{\circ}$
82.	The value of $(1 + 0.1 + 0.1)$	0.11 + 0.111) is		
	1) 1.321	2) 1.211	3) 1.111	4) 1.0321
83.	When a number is divident of the second seco	ded by 5, it gives remain	nder 3. What is the rema	inder when square of that
	1) 9	2) 3	3) 4	4) 1
84.	Find the value of 67^2 –	33 ²		
	1) 3200	2) 3400	3) 3146	4) 3143
85.	If two sides of a triangle at the area?	are given and by the two	sides is also given, how m	any triangles can be drawn
	1) 0	2) 1	3) 2	4) 3
86.	4 men can complete a pi in 4 days	eces of work in 5 days. H	Iow many are required to	complete 3 times the work
	1) 5	2) 15	3) 80	4) 20
87.	Given that $log 2 = 0.3$ ap	prox, one billion would b	be apex	
	1) 2 ⁹	2) 2 ¹⁰	3) 2 ²⁰	4) 2 ³⁰
88.	In how many different ways can 3 identical white balls and 2 identical red balls he arranged besides each other, in straight line?			
	1) 6	2) 10	3) 12	4) 120
89.	The value of $\sin^2 30^2 +$	$\sin^2 60^2$ is		
	1) 1	2) $\frac{3}{2}$	3) 2	4) $\frac{3}{4}$
90.	As the speed of charged	particle increase in a cyc	lotron, (choose True (T) fe	or False (F))
	a. The particle moves to	a larger circle		
	b. There is relativistic ch	ange in the mass of the p	particle	
	c. Frequency of the cycle	otron has to be adjusted		
	1) F, F, F	2) T, T, T	3) T, F, T	4) T, T, F
91.	In a thermodynamic syst	tem, a process in which v	olume remains constant is	called process.
	1) isobaric	2) isometric	3) adiabatic	4) isentropic
92.	Coefficient of performar	nce of a commercially use	ed refrigerator would be cl	ose to
	1) 40%	2) 85%	3) 1.5	4) 3.5
93.	In a thermodynamic syst	tem, thermal equilibrium	is achieved when two bod	ies reach
	1) same thermal energy		2) same entropy	
	3) same temperature		4) same molecular energy	





- **95.** In a multicylinder diesel engine, the cylinders are fired in a particular sequence
 - 1) to reduce fuel consumption
 - 3) to reduce engine vibrations

- 2) to reduce knocking
- 4) all of the above

96. Consider the circuit below:



This circuit is called a

	1) Half adder	2) Latch	3) Bit counter	4) PIPO device
97.	De Morgain's theorem sta	ates that		
	1) $(X + Y)' = Y' + X'$	2) $(X.Y)' = X' + Y'$	3) $(X.Y)' = Y'.X'$	4) $(X + Y)' = X' + Y'$
98.	In Boolean algebra $(1 + 1)$	$\overline{1}$). (0 + 0) = ?		
	1) 0	2) 1	3) 2	4) -1
99.	Which of the following is not an I/O device of the computer?			
	1) keyboard	2) Joy stick	3) ALU	4) Printer
100.	A bond in a brick work when headers and stretchers are placed in alternate layers is called			
	1) Header bond		2) English bond	
	3) Flemish bond		4) Herring bone bond	
101.	Excess silica in cement			
	1) increases the setting ti	me	2) decreases the setting t	time
	3) weakens the strength of	of the cement	4) does not affect the setting time	
102.	The outer protective laye	r of a tree is		
	1) cambium layer	2) pitch	3) bark	4) sap

103.	B. Which lime is most suitable white washing?				
	1) quick lime	2) stone lime	3) kankar lime	4) shell lime	
104.	What is floating point with	ith			
	1) It is a software subrou	tine around which other s	sub-routines are built		
	2) It is a representation of	of real numbers to facilitat	te computing		
	3) It is the main algebrai	c formula of the software			
	4) It is the voltage point	given to various operating	g units of the computer		
105.	A system of digital rules	for exchange and process	sing of data between vario	us devices is called	
	1) software programme		2) algorithm		
	3) protocol		4) information processin	lg	
106.	A theoretical computer w called	with infinite type and men	nory used in analysis of pr	oblems of computation, is	
	1) Tape calculator		2) Babbage machine		
	3) Turning machine		4) Theoretical machine		
107.	ASCII coding allocated binary codes to English alphabets and symbols for computer use. More recently a new standard has been adopted which allocates code to almost all the languages of the world and also to symbols covering more than a lakh characters. The new standard is called				
	1) CCS2) Unicode				
	3) Standard CCS code		4) Universal CCS code		
108.	For using passwords on the Internet a software is is called		used so that the password i	is not intercepted easily. It	
	1) Coding	2) Malware	3) Virus	4) Encryption	
109.	A software, coding of w use and improvement an	hich is available freely or d which is generally deve	n Internet and is open for loped in a collaborative m	users for users for further anner is called	
	1) open source software		2) unlicensed software		
	3) free software		4) community software		
110.	Which of the following a	are machine level languag	ges?		
	1) C++	2) Java	3) Python	4) Community software	
111.	Section 66 A has been in	media controversy recen	tly. The section pertains to)	
	1) Communal Harmony		2) Sexual Aggression		
	3) Company's Act		4) Information Technolo	gy	
112.	IPC stands for				
	1) International Peace Co	ode	2) Indian Peace Code		
	3) Indian Penal Code		4) International Punishm	nent Code	
113.	Who among the followin transactions?	g can accept the deposits	of money from the public.	, as a business in financial	
	1) Individuals		2) Firms		
	3) Unincorporated Assoc	tiations	4) None of the above		

114.	• NEFT and RTGS are the means for				
	1) Money transfer		2) Fiscal control policy		
	3) Monitoring tax collect	tion	4) Implementing GST		
115.	In September 2014 ISRC	achieved success in whi	ch project?		
	1) Launched Heavy payl	oad vehicle	2) Launched geo-station	ary satellite	
	3) Launched rocket to m	ars	4) Mars Orbiter success	fully entered Mars orbit	
116.	6. In October 2014 a cyclone hit Visakhapatnam. The name of the cyclone was			5	
	1) Katrina	2) Hudhud	3) Laila	4) Halen	
117.	SAARC countries are for	rm which part of the worl	d?		
	1) South America	2) South Asia	3) South Africa	4) None of the above	
118.	How many pairs of letter word as there are betwee	rs are there in the word Cl on them in the English alp	RAB which has as many le habet?	etters between them in the	
	1) 3	2) 2	3) 1	4) 0	
119.	Which month is differen	t from other months in the	e group?		
	1) April	2) June	3) July	4) November	
120.	0. Find the median of the following numbers				
	14, 23, 20, 12, 11, 15, 24, 17, 9, 21, 25				
	1) 15	2) 20	3) 17	4) 11	
121.	Let $an 90^{\circ}$ is underfined. As θ is increased from 89° towards 90° value of tan θ tends to				
	1) 0	2) + α	3) 1	4) undefined	
122.	A man sells his two cars 10% over the cost price.	at the same price. In one his total gainor loss per c	car he makes a profit of 1 ent is	0%. In other car he losses	
	1) 1% loss	2) 1% gain	3) 2% loss	4) No loss no gain	
123.	$\sqrt{10} = 3.1623$ (approx).	What is the approx value	of $\frac{1}{\sqrt{10}}$?		
	1) 0.333	2) 0.3162	3) 0.3221	4) 0.3437	
124.	A student was asked to r the answer 63 more than	nultiply a number by 12. the correct answer. What	By mistake he multiplied is the correct answer?	the number by 21 and got	
	1) 9	2) 8	3) 7	4) 84	
125.	Consider the following g	raph			
	C A B (Calorie) heat Which portion represents	D S the 'Latent heat of fusion	1'?		
	1) OA	2) AB	3) BC	4) CD	

126.	6. Which of the following does not sublimate?				
	1) Ice		2) Ammonium chloride		
	3) Naphthalene		4) Camphor		
127.	Which of the following i	s a heterogeneous mixtur	re?		
	1) Brass		2) Sugar solution in wat	ter	
	3) Air		4) Milk		
128.	In a scooter, in which pa	rt is the petrol atomized a	and mixed in correct propo	ortion with the	
	1) Carburettor	2) Cylinder	3) Inlet port	4) Fuel pump	
129.	Which alloy steel would	be used for making leaf	and coil springs?		
	1) Nickel-Chrome		2) Vanadium		
	3) Silicon-Manganese		4) Chrome-molybdenun	n	
130.	0. In aluminium casting bubbles of argon or nitrogen are passed through the molten				
	1) to improve surface fin	ish of the casting			
	2) to remove hydrogen g	as porosity			
	3) to precipitate the inclu	isions			
	4) to mix the alloy elements				
131.	1. Clearance between the mating parts is measured using				
	1) Dial gauge		2) Go-gauge		
	3) No-go gauge		4) Feeler gauge		
132.	In a milling process, for	milling mild steel, what	will be a typical rate angle	for the cutter?	
	1) 12°	2) 20°	3) 28°	4) -12°	
133.	State True (T) or False (I	F) respectively:			
	A. For better tensile stren	ngth, cast component is p	preferred over forged comp	ponent	
	B. Quenching of hot con	nponent in water improve	es its malleability		
	1) T, T	2) F, F	3) T, F	4) F, T	
134.	Channel, Angles and I-see from blooms using the pr	ection, which are used in rocess of	fabricating a shed structur	e frame, are manufactured	
	1) casting	2) drawing	3) swaging	4) rolling	
135.	Output of welding transf	ormer, compared with its	s input is		
	1) high voltage high curr	rent	2) high voltage low curr	rent	
	3) low voltage high curre	ent	4) low voltage low curr	4) low voltage low current	
136.	Thermochemical decomp called	position of organic materi	ials at high temperatures, i	n the absence of oxygen is	
	1) Pyrolysis	2) Thermolysis	3) Caramelization	4) Catagenesis	
137.	Acid rain is caused by pr	resence of which of the fe	ollowing gases in the atmo	osphere	
	1) Nitrogen and oxygen		2) Sulphur dioxide and	Nitrogen oxide	
	3) Carbon dioxide and C	arbon-mono-oxide	4) Ozone and argon		

138.	One of the main reason for depletion of ozone layer in the Earth's atmosphere is			
	1) Green house gases		2) Colloidal impuries	
	3) CFC and halons		4) Rockets and satellite launching vehicles	
139.	What is the value of total hardness acceptable in potable water as per Indian Standards?			
	1) 0.3	2) 3	3) 30	4) 300
140.	Preventing rain water to run-off and its accumulation and deposition for re-use on site is called			
	1) rain water collection		2) micro-dams	
	3) micro-accumulation		4) rain water harvesting	
141.	The terms ALU, CPU, I/O devices pertain to			
	1) Computers		2) environmental engine	eering
	3) diesel engine		4) engineering drawing and orthogonal projections	
142.	In a computing device 'MHz' is mentioned in the specifications. It refers to			
	1) size of memory		2) speed of computation	
	3) clock speed		4) None of the above	
143.	For plasting walls, cement mortar would be typically used in which ratio?			
	1) 1 : 2	2) 1 : 4	3) 1 : 6	4) 1 : 8
144.	The grade M25 of concrete would approx. refer to the mix			
	1) 1 : 3 : 6	2) 1 : 2 : 4	3) 1 : 1 : 2	4) 1:4:8
145.	Brass is an alloy of			
	1) copper and zinc		2) copper and tin	
	3) copper and aluminium		4) aluminium and tin	
146.	A pigment generally used to impart white colour in a paint is			
	1) graphite	2) lead	3) copper sulphate	4) zinc
147.	The main purpose of providing foundations to a building is			
	1) to provide a level base over which masonry may be laid			
	2) to fix the super structure to the ground			
	3) to distribute the weight of the structure of a sufficiently large area of the substratum			
	4) to prevent uneven distribution of load beams on the substratum			
148.	The branch of surveying in which only linear measurements are directly made in the field is			
	1) land surveying		2) chain surveying	
	3) engineering survey		4) topographical survey	
149.	A theodolite is used for measuring			
	1) distances2) strength of materials			
	3) surface hardness4) angles			
150.	Contour lines drawn on a map, are the lines which pass through			
	1) hills and depressions		2) same elevation	
	3) same latitude		4) None of the above	_
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ANSWERS

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