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THIS SHEET TO BE DETACHED/TORN OFF AND RETAINED BY INVIGILATOR ON COMPLETION OF EXAM / परीक्षा की पूर्ति पर इस पन्ने को अलग करकें/काटके निरीक्षक द्वारा रखा जाए

Duration : (2 Hours / 120 Minutes)	Exam Code :
समय : (2 घंटे / 120 मिनट)	परीक्षा कोड :
No. of Pages / पृष्ठों की संख्या : 208	Total Marks / कुल अंक : 150
Roll No. :	Question Booklet No. :
अनुक्रमांक:	प्रश्न-पुस्तिका संख्या : 1057984
Date of Examination :	OMR Answer sheet No.
परीक्षा तिथि :	OMR उत्तर शीट क्र.
Candidate's Name / परीक्षार्थी का नाम	Candidate's Signature / परीक्षार्थी का हस्ताक्षर
*** As given in application	form / आवेदन पत्र में दिये गये अनुसार ***

CANDIDATE SHOULD OPEN THE SEALS ONLY AFTER THEY ARE ASKED TO DO SO. परीक्षार्थी निर्देश मिलने पर ही सील खोलें।

The question paper is made up of the following sections as tabulated below : निम्न तालिका में दर्शाये अनुसार, इस प्रश्न पत्र को निम्नलिखित भागों में विभाजित किया गया है :

C	T / STEET	NI CO	Pages/पृष्ठ		
Section/भाग	Language/भाषा	No. of Questions/प्रश्नों की संख्या –	From/से	To/तक	
Section - I	English	150	14	29	
Section - II	Hindi/हिन्दी	150	30	46	
Section - III	Urdu/الدو/Urdu	150 ·	47	64	
Section - IV	Assamese/অসমীয়া	150	65	81	
Section - V	Bengali/বাংলা	150	82	98	
Section - VI	Manipuri/মনিপুরি	150	99	116	
Section - VII	Odia/ଓଡ଼ିଆ	150	117	134	
Section - VIII	Telugu/මිනාරා	150	135	153	
Section - IX	Marathi/मराठी	150	154	171	
Section - X	Gujarati/ગુજરાતી	150	172	188	
Section - XI	Kannada/ಕನ್ನಡ	150	189	206	

English Paragraph: "All the details given by me in the Application Form are true and complete to the best of my knowledge. I understand that I may be issued with Call letter for the exam on the basis of above information and mere issue of Call letter will not confer on me any right to be eligible for the post. I also understand that in case any of my statements are found to be untrue at any stage of recruitment or thereafter, I shall be disqualified forthwith for the post applied for and I shall be liable for any other penal action under the extant rules."

हिन्दी पैराग्राफ: ''आबेदन पत्र में मेरे द्वारा दिये गये सभी विवरण मेरी अधिकतम जानकारी के अनुसार सत्य और पूर्ण हैं। मैं समझता/समझती हूँ कि मुझे परीक्षा के लिए उपर्युक्त सूचना के आधार पर बुलावा पत्र जारी किया जाएगा और केवल बुलावा पत्र जारी करना पद के लिए पात्र होने का मुझे कोई अधिकार नहीं देता है। मैं यह भी समझता/समझती हूँ कि यदि मेरा विवरण भर्ती के किसी चरण पर या तत्पश्चात् असत्य पाया जाता है, तो मैं आवेदित पद के लिए तत्काल निर्हरक हो जाऊंगा/जाऊंगी और मुझ पर लागू नियमों के तहत कोई अन्य दंडात्मक कार्रवाई की जाएगी''।

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परीक्षा की पूर्ति पर यहाँ कारें

Cut here on completion of exam

INSTRUCTIONS

(Please read carefully and comply)

- Kindly read the complete set of instructions carefully and also see the instructions on the back side of the OMR Answer Sheet and fill the details in the OMR Answer Sheet and Question Booklet.
- 2. One paragraph each in Hindi and English is given in page 1. Copying of the paragraph in the space provided in the OMR Answer Sheet (in the language as filled in the application form either in Hindi or English) in your running hand is compulsory. DO NOT USE BLOCK LETTERS.
- 3. (a) Question Booklet Serial No. must clearly be written and marked in the bubbles in the space provided in the OMR Answer Sheet.
 - (b) OMR Sheet No. should be written in the space provided in the Question Booklet.
- 4. After being instructed to open the Booklet, the candidates will open the seals. It is the responsibility of the candidate to check and ensure that the booklet contains 150 questions and start the paper from page no. 14.
- 5. The question paper comprises **150** questions and are available in congruent versions of English, Hindi, Urdu, Assamese, Bengali, Manipuri, Odia, Telugu, Marathi, Gujarati and Kannada languages. In case of any doubt or confusion, English version shall prevail.
- 6. All questions are of Objective type. There is only one correct answer to each question carrying one mark. There will be negative marking for wrong answers. For every wrong answer, 1/3 mark will be deducted.
- 7. In the event of any mistake in any question/s, candidates will not be penalized. However no corrections will be made in question/s during the examination.
- 8. You must use **Blue or Black** ball-point pen only for answering. Altering of answers once entered is not permissible. Enter the answers in the Answer Sheet carefully.
- 9. Rough work, if any may be done in the Question Booklet only in the space provided at the end of the Booklet. No additional paper shall be provided.
- 10. Use of Log tables, Calculator, Slide rule, Mobile phone, Pager, Digital diary or any other electronic item/instrument, etc. is not allowed. Their use will result in disqualification.
- 11. No candidate should leave the examination hall before the final bell. The Answer Sheet as well as the Top Sheet of the Question Booklet should be handed over together to the invigilator before leaving the Examination Hall.

SECTION - I

yara - I	NGL	ISF
Age of a Tree may be ascertained by		
(A) Radius of its Stem	(B)	Nii

(C) Number of Branches

2.	Find the work done when a force $\overrightarrow{F} =$	$\left(\overrightarrow{i} + 2\overrightarrow{j} + 3\overrightarrow{k}\right)$	N acting on a particle takes it from

(D)

the point $\vec{r_1} = (\vec{i} + \vec{j} + \vec{k}) m$ to the point $\vec{r_2} = (\vec{i} - \vec{j} + 2\vec{k}) m$. (A) -3 J (B) -1 J (C) Zero (D) 2 J

The perimeter of a rectangle is 46 cm. The length of a diagonal of this rectangle is 17cm. Find the area of this rectangle.

(A) 240 cm^2

1.

- 529 cm²

Number of Annual Rings

Circumference of its Stem

(C) 289 cm^2 (D) 120 cm^2

For a PN Junction, when the N-side is more positive than the P-side; the diode is said to be:

- (A) Forward Biased and a large current exists
- Forward Biased and a small current exists.
- Reverse Biased and a large current exists
- (D) Reverse Biased and a small current exists

Manoj can complete a journey in 10 hours. He travels first half of the journey at the speed of 5. 21 kmph and second half of the journey at the speed of 24 kmph. Find the total journey:

- (A) 230 km
- (B) 234 km
- (C) 220 km (D) 224 km

6. If $3x + 7 = x^2 + p = 7x + 5$, then the value of 'p' will be:

- (A) $\frac{1}{2}$

- (B) $8\frac{1}{2}$ (C) $2\sqrt{2}$ (D) $8\frac{1}{4}$

The perimeter of a square 'S' and perimeter of an equilateral triangle 'T' are equal. If the diagonal of this square 'S' is $12\sqrt{2}$ cm, then find the area of this equilateral triangle 'T'.

- (A) $48\sqrt{3}$ cm² (B) $64\sqrt{3}$ cm² (C) $24\sqrt{2}$ cm² (D) $24\sqrt{3}$ cm²

Which one of the following is **not** a prime number?

- (A) 71
- - 91 (C) 61
- (D) 31

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9.	The	most ideal disir	efectant i	ised for dr	inking	water	r is :		
9.		Alum		Chlorine				(D)	Nitrogen
10.	Earth	nworm belongs	to follow	wing anima	al phy	la?			
		Porifera	(B)	Annelida			Mollusca	(D)	Arthropoda
11.	Sami	pling Theorem	finds ap	plication in	ı :				
griiw((A)	The Vermer's real Live			(B)	Frequ	aency Modula	ation	
	' '	Pulse Code M			(D)		e of these		
12.	The	characteristic e	quation (of Gases P	V = nR	T hold	ls good for:		
	(A)	Monoatomic ((B)		omic Gases		
	(C)	Ideal Gases			(D)	Real	Gases		
13.		the distance of image is four ti					of focal length	10 cm so	that the size of its
	(A)						2.5 cm	(D)	12.5 cm
14.	Whi	ch extention is	given to	word doci	ument	by de	fault ?		
	(A)		(B)	COM		(C)	EXT	(D)	None of these
15.	36 m		te a wor	k in 18 day	s. In	how n	nany days wil	1 27 men	complete the same
	(A)	24 days	(B)	12 days		(C)	30 days	(D)	42 days
16.	Whi	ch one of the fo	allowing	is renewal	ble res	ource	? Grandani		
10.		Coal		Petroleun			Natural Gas		Wind
17	Find	d the value of 10	⁰ C ₂ :						
17.	(A)	720	(B)	240		(C)	120	(D)	1000
18.	Whi	ich one of the fe							
	(A)		A CONTRACT OF STREET		(B)		e Tolerance	antov hi	
	(C)	Low Tooling	Cost		(D)	Goo	d Surface Fin	ish	
19.	The	United Nation	s Day (L	J.N. Day) i	s celeb	rated	every year or	i: lauo.	
		Oct. 24	(B)	Nov. 6		(C)	Dec. 26		(D) March 1
20.	The	value of the bi	nary 111	111 is ·					
40.		2^4-1	(B)	24		(C)	25	(D)	$2^5 - 1$
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21.	Wh	ere was the Fi	rst Sessio	n of Indian	Natio	onal C	ongress held ir	n 1885 A	.D. ?	
		Delhi	(B)	Calcutta			Bombay		Surat	
22.	Ide:	ntify the cyclorober ?	ne which	caused lar	ge sca	ale des	structions in Vi	shakhap	atnam this year ir	1
	(A)	Phailin	(B)	Katrina		(C)	Hudhud	(D)	Nilofar	
23.	Sha	nti Swarup Bl l:	natnagar	Award is	given	for or	utstanding con	ntribution	n in the following	5
	(A)	Science	(B)	Literature)	(C)	Economy	(D)	Performing Arts	
		40)							
24.	The	value of $\Sigma \frac{dQ}{T}$	for an i	rreversible	proce	ss is:				
	(A)	Less than ze	ro		(B)	Grea	iter than zero			
	(C)	Equal to zero			(D)	Any	one of these			
25.		btain the P-ty								
	(A)	A pentavaler		ty is added	(B)	A tri	valent Impurit	y is adde	ed	
	(C)	Both are add	ed		(D)	None	e of these			
26.	Cho	ose the stateme	ent which	n is correct						
	(A)	PERT is even	t oriented	d	(B)	PERT	Γ is not event o	riented		
	(C)	CPM is event	toriented	sb 05 (0	(D)		is not activity		(A) 24 da	
27.	The	Air-Fuel ratio	of the Pet	rol Engine	is con	trollec	l by :			
	(A)	Carburettor	(B)	Injector		(C)	Governor	(D)	Fuel Pump	
28.	can c	d y can complete this wing together?	work in 3	k in 18 days 6 days. In	s; y ar how	nd z ca many	n complete thi days will <i>x, y</i>	s work in	n 24 days; x and z mplete this work,	
		26 days		13 days		(C)	16 days			
29.	The outp	minimum valuut is called :	ue of inp	ut which is	s nece	essary	to cause a det	ectable o	change from zero	
	(A)	Least Count	(B)	Resolution		(C)	Drift	(D)	Threshold	
30.	The s	speed of a boat /hour. Find the	t in dowr	nstream dire of this boat	ection	is 14 l	km/hour and i	n upstre	am direction is	
		22 km/hour					3 km/hour	(D)	11 km/hour	

					l, risgola s							
31.	Find	the va	lue of (0.000216)	$\frac{1}{3}$:							
	(A)	0.6		(B)	0.06		(C)	0.006		(D)	0.0006	
32.	Zene	er Dioc	le is a :									
02.	(A)			ed diode		(B)	Forw	ard biased	diode			
	(C)			age sour	ce antiliaw	(D)		tant curren				
33.	Whi	ich of t	he follo	wing ratio	onal relatio	on oper	rations	in 'C' mea	ns "no	ot equ	al to"?	
00.	(A)			(B)	== A	(0)	(C)	! =		(D)		
	(21)	"		(2)								
34.	Trip	ole Vac	cine is a	dministe	red to a ne	w borr	n child	to immuni	ze aga	inst:		
	(A)	Who	oping C	ough, Te	tanus and	Measle	es					
	(B)	Who	oping C	ough, Te	tanus and	Diphtl	heria					
	(C)	Tetar	nus, Dip	htheria a	nd Small 1	pox						
	(D)	Tetar	nus, Typ	hoid and	l Hepatitis							
					. 1 1 6	TT	6	1057 balan	and to			
35.				prominen	t leader of			1857, belong	ged it	, .		
	(A)	Punj				(B)		sthan				
	(C)	Mad	hya Pra	desh		(D)	Biha	r sous reliate				
					ma Swaraj	Seem	(8)	- J11 io	hattar			
36.			er of ch			mal hu		oody cell is	sauta	(D)	16	
	(A)	43		(B)	44		(C)	45		(D)	46	
37.	is g	iven by	7:					an element				
	(wh	nere C _p	=Heat	capacity	at Constar	nt Press	sure;	$C_v = Heat c$	apacit	y at (Constant	Volume)
					Cp			C_{v} . AT		(C 450	
	(A)	$C_{\rm v}$.	T _{II} but	(B)	$\frac{1}{C_{v}} \cdot \Delta T$		(C)	$\frac{C_{v}}{C_{p}} \cdot \Delta T$		(D)	$C_p.\Delta T$	
38.	The	e prese	nt age o	f a father	is 3 years	more	than t	hree times t	he ag	e of h	is son. A	fter three
	yea of t	rs, fath the Fat	ier's age her.					e the age of				
	(A)	30 y	ears	(B)	33 years		(C)	36 years		(D)	39 years	S
39.	In I	Drawir	ng, the s	urface ro	ughness is	repres	ented	by:				
		Circ		(B)	Squares			Triangles		(D)	Zig - Za	ig lines
											TS	G001414

40.	. With which one of the following mov	ements	ts is the slogan "Do or Die" associated?
	(A) Swadeshi Movement		
	(C) Civil Disobedience Movement	(D)	1
41.	Filler Metal is used in :		
	(A) Seam welding	(B)	Spot welding
	(C) Projection welding	(D)	Gas welding
42.	Which one of the following blood grou	in is co	Considered Universal Depart 2
	(A) AB (B) O		(C) A (D) B
43.	Which of the following cycles is used it	in ther	rmal nower plants ?
	(A) Rankine (B) Carnot		(C) Otto (D) Joule
44.	If $\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$, then the value	e of 'x'	is:
	(A) $\frac{1}{2}$ (B) 1		(C) 2 (D) -1
45.	Who is the Chief Minister of Haryana (A) Manohar Lal Khattar (C) Om Prakash Chautala	(B)	s on 01.11.2014) Sushma Swaraj Bhupendra Singh Hooda
46.	A train, 270 metres long, is running a which is running at the speed of 80 kmp What is the length of another train?	it the s h in op	speed of 120 kmph. It crosses another train, opposite direction on parallel track, in 9 seconds.
		3	(C) 250 metres (D) 330 metres
47.	The sum of the squares of three consenumbers:	cutive	e odd numbers is 2531. Find these three odd
	(A) 21, 23, 25 (B) 25, 27, 29	route Laure	(C) 27, 29, 31 (D) 23, 25, 27
48.	Which one of the following has the dim	ension	ns of pressure ?
	(A) MLT^{-2} (B) $ML^{-1}T^{-2}$		(C) $ML^{-2}T^{-2}$ (D) $ML^{-1}T^{-1}$
49.	Which one of the following contains Hu	ıman h	body's thermostat ?
	(A) Pineal (B) Pituitary	((C) Thyroid (D) Hypothalamus
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T	7	T	
1	1		

19

50.	Nature's	cleaners	are	
00.	I detect o			

- (A) Producers (B) Consumers
- (C) Decomposers

51. The refractive index of water is $\frac{4}{3}$. What is the speed of light in water?

- (A) 2.25×10^8 m/sec
- (B) 4×10^8 m/sec

(C) 1.5×10^8 m/sec

(D) 2.67×10^8 m/sec

What was the overall voting percentage in the recently held General Elections for 16th Lok Sabha?

- (A) About 60%

- (B) About 55% (C) About 66% (D) About 78%

- (A) Parallel

- (B) Normal (C) Oblique (D) None of these

- (A) Kolkata
- Nagpur (B)
- (C) Secunderabad (D) Bilaspur

- (A) Andaman and Nicobar Islands (B) Chhattisgarh

(C) Jharkhand

(D) Madhya Pradesh

56. If the electron in hydrogen orbit jumps from third orbit to second orbit then the wavelength (
$$\lambda$$
) of the emitted radiation is given by : (where R=Rydberg constant)

- (B) $\lambda = \frac{R}{5}$
- (D) $\lambda = \frac{5R}{36}$

The main principle of surveying is to work from: 57.

(A) Part to whole

- Whole to part
- (C) Higher Level to Lower Level (D) Lower Level to Higher Level

- (A) 120°
- (B) 125°
- (C) 130°

Find the value of:

$$\frac{(489 + 375)^2 - (489 - 375)^2}{(489 \times 375)}$$

- (A) 144
- (B) 864
- (D) 4

When an object is cut by a section plane parallel to horizontal plane and perpendicular to vertical plane, then the sectional view of the object is obtained in :

- (A) Front view
- (B) Left side view
- (C) Right side view (D) Top view

61. Stiffners are used in a Plate Girder to:

- (A) Avoid buckling of web plate
- (B) Reduce the shear stress
- (C) Reduce the compressive stress
- (D) Take the bearing stress

Welding Generators do have:

(A) Delta winding

(B) Wave winding

(C) Lap winding

(D) Duplex winding

Expression + + i is equivalent in 'C' to:

- (A) i = i + 1
- (B) i = i + 2
- (C) i = 2i
- (D) None of these

Which of the following is an SI Engine?

- (A) Diesel Engine (B) Petrol Engine
- (C) Gas Engine
- None of these

In a singly Reinforced Beam, if the permissible stress in concrete reaches earlier than the permissible stress in steel, the Beam section is called:

- (A) Under Reinforced Section
- (B) Economic Section
- (C) Critical Section
- (D) Over Reinforced Section

Arrange the fractions $\frac{5}{8}$, $\frac{7}{12}$, $\frac{13}{16}$, $\frac{16}{29}$ and $\frac{3}{4}$ in ascending order of magnitude :

- (A) $\frac{16}{29} < \frac{7}{12} < \frac{5}{8} < \frac{3}{4} < \frac{13}{16}$ (B) $\frac{16}{29} < \frac{5}{8} < \frac{7}{12} < \frac{13}{16} < \frac{3}{4}$
- (C) $\frac{3}{4} < \frac{13}{16} < \frac{7}{12} < \frac{5}{8} < \frac{16}{29}$ (D) $\frac{3}{4} < \frac{5}{8} < \frac{7}{12} < \frac{13}{16} < \frac{16}{29}$

What does an electronic spreadsheet consist of?

- (A) Rows
- (B) Columns
- (C) Cells
- (D) All of the above

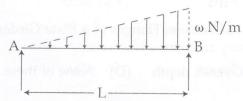
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VL					21				
68.	in p		ective re	sistance o					h, when connected connected in series,
	(A)	4 ohm	(B)	1 ohm		(C)	2 ohm	(D)	0.50 ohm
69.		erfect gas at 27 perature is :	°C is h	eated at	constan	t pres	sure till its vol	ume is	doubled. The final
	(A)	54°C	(B)	108°C		(C)	327°C	(D)	600°C
70.	emp	e 'P' can fill a ta ty the full tank much time this	in 20 h	ours. If a	all the th	'Q' ca	an fill this tank ipes are operat	in 12 h ed simu	ours. Pipe 'R' can ltaneoulsy, then in
	(A)	7 hours	(B)	$7\frac{1}{2}$ ho	ours	(C)	8 hours	(D)	$8\frac{1}{2}$ hours
71.	Palit	tana Temples ar	re locate	ed near :					
	(A)	Bhavnagar, C	Gujarat		(B)	Ujjai	n, Madhya Pra	adesh	
	(C)	Nasik, Mahar	ashtra		(D)	Vara	nasi, Uttar Pra	adesh	
72.	Who	is the Chairma	an of Ra	ajya Sabha	a ? (As	on 01	.11.2014).		
	(A)	Sumitra Mah	ajan		(B)	Ham	id Ansari		
	(C)	Arun Jaitley			(D)	Than	mbi Durai		
73.		at are the advan				n syst	em over AC tra	ansmissi	on system ?
	(A)	There is no sk				(d)(U)	graatgarg	odessing	
		Corona limits			C circui	its as	compared to A	C circuit	ts
	(C)	DC system is		ıcal					
	(D)	All of the abo	ve						
74.		distance between as :	en C.G.	of compr	ession a	nd C.	G. of Tension F	Flanges o	of a Plate Girder is
	(A)	Clear depth	(B)	Effective	e depth	(C)	Overall depth	(D)	None of these
75.		tify the Country		was succ	essful ir	putti	ng a space craf	t into the	e Martian Orbit on
	(A)	Russia	(B)	China		(C)	India	(D)	USA

- 76. Ravi spends $\frac{2}{5}$ of his salary on House Rent; $\frac{3}{10}$ of his salary on Food and $\frac{1}{8}$ of his Salary on Conveyance. After this, he is left with ₹ 1400. Find his expenditure on Food.
 - (A) ₹ 8000
- (B) ₹ 3200
- (C) ₹ 2400
- 77. If the fundamental frequency of a pipe closed at one end and open at another end is 512 Hz. The fundamental frequency of a pipe of the same dimension but open at both ends will be:
 - (A) 1024 Hz
- (B) 64 Hz
- (C)256 Hz
- (D) 128 Hz
- A shopkeeper purchased 100 oranges for ₹ 350 and then sold these oranges at the rate of 78. ₹ 48 per dozen. What is his percentage profit?
- (A) $12\frac{1}{2}\%$ (B) $14\frac{2}{7}\%$ (C) $10\frac{1}{2}\%$
- 15%
- A person travels 12 km in the North direction; then 15 km in the East direction; then 79. 15 km in the West direction and then 18 km in the South direction. How far is he from the starting point?

 - (A) 6 km (B) 12 km
- (C) 33 km
- 80. The length of a line measured with 20 m chain is found to be 400 m. If the actual length of the chain is 20.05 m, then the true length of the line is:
 - (A) 400.50 m
- (B) 401.50 m (C) 402.50·m (D) 401.0 m
- 81. Which one of the following diseases is caused due to deficiency of protein?
 - (A) Kwashiorkor (B) Rickets
- (C) Beri Beri
- (D) Scurvy

- 82. Microsoft Windows is a/an:
 - (A) Word-processing program
- (B) Database program
- (C) Operating system
- (D) Graphics program
- A simply supported beam carries a varying load from zero at one end to $\omega \; N/m$ at the other end (as under).



The length of the beam is L. The shear force will be zero at a distance 'x' from A. Find 'x':

- (A) $\frac{L}{2}$ (B) $\frac{L}{4}$ (C) $\frac{L}{\sqrt{3}}$ (D) $\frac{L}{3}$

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01.	III a	unce-imiged ar	cii, tile	bending M	omen	t will	be zero at.				
	(A)	Right Hinge O	nly		(B)	Left	Hinge Only				
	(C)	Both Right and	d Left I	Hinges	(D)	All	the three Hinge	S			
85.	Atoms of the elements belonging to the same group of periodic table will have :										
	(A)	Same number	of prot	tons	(B)	Sam	e number of ne	eutrons			
	(C)	Same number	of elec	trons	(D)	Sam	e number of el	ectrons i	in the valence shell		
86.	The	average of six age of next two	numbe numbe	ers is 3.95. ers is 3.85, t	If the hen fi	avera	age of first two	numbe remair	ers is 3.40 and the ning two numbers.		
		4.6	(B)			(C)			4.5		
87.	In a char	transformer, elenge in :	ectrical	power is tr	ansfer	red fr	om one circuit	to anot	her circuit without		
	(A)	Frequency	(B)	Voltage		(C)	Current	(D)	All of these		
88.	The Height, Width and Depth of an object can be shown with a minimum of how many Orthographic projection views?										
	(A)	Six	(B)	Three		(C)	Two	(D)	Four		
89.	The	word function the	hat cor	rects text as	we to	me is	referred to as:				
		Auto insert			(B)	-	correct				
	` '	Auto summari	ze		. ,		k changes				
90.	Mac	will tran hine Language.	slate th	ne complete	progr	am at	once from a H	igh Lev	el Language to the		
	(A)	Compiler	(B)	Joy stick		(C)	Ports	(D)	Light pen		
91.		a is older than Ma a. Who is the eld				Mala l	out younger tha	n Alka.	Mala is older than		
	(A)	Gopal	(B)	Mala		(C)	Alka	(D)	Ram		
92.	If th	e diameter of a	wire is	halved, its	curren	t carr	ying capacity v	vill beco	me : 68.8 (A)		
	(A)	One-fourth	(B)	Half		(C)	Twice	(D)	Four Times		
93.	The	relationship bety	veen v	oid ratio 'e'	and p	orosit	y ratio 'n' for a	given s	oil mass is :		
	(A)	$n = \frac{1+e}{1-e}$	(B)	$e = \frac{1+n}{1-e}$		(C)	e = n(1 + e)	(D)	$n = \frac{1 - e}{e}$		

71.	(i)	Coppe			are : Eddy cur	rent la	200	(iii) LI	rvotovosi	11	
		constant	power	loss of	a transform	ner is	oiven	hy:	ysteresi	SIOSS	
		(i) only		(B)					7	(D)	(ii) and (iii) only
95.	A ci	ircle will	appear.	on an	isometric	drawi	no ac	2/22			
	(A)	Parabo	la .	(B)	Ellipse	andvi	(C)	Circle	stoele k	(D)	Cycloid
96.	If th	e volume	of a Cu	abe is ?	729 cm ³ , the	on the	total	surface ar	ea of th	ic Cul	pe will be:
	(A)	81 cm ²		(B)	486 cm ²	di kai	(C)	484 cm ²	ea or th	(D)	529 cm ²
97.	To b	e eligible	for mer	nbersh	nip of the L	ok Sah	oha, a	nerson sh	ould be	atlead	4.
	(A)	18 years	of age		rom one ci	(B)	30 v	ears of ago	p outube	atteas	St .
	(C)	35 years	s of age			(D)	25 y	ears of age	e		
98.	In Bo	oolean Al			A+ ···· +A						
	(A)	Zero		(B)	A vorta od		(C)	nA		(D)	An
99.	Find annu	compourally ?	nd inter	est on	₹ 7,500 at	the ra	te of	4% per ar	num fo	or 2 ye	ears, compounded
	(A)	₹ 612		(B)	₹ 300		(C)	₹ 600 .		(D)	₹ 630
100.	The 1	ruler of v xt of mis	vhich of governa	the fo	ollowing Sta	ates w	as rei	moved fro	m powe	er by	the British on the
	(A)	Awadh	JV6.TVI ₈	(B)	Jhansi		(C)	Satara		(D)	Nagpur
101.	Find	the missi	ng term	of the	following s	series :					
		3, 6, 7, 9,									
	(A)	14		(B)	12 average		(C)	11 er lege		(D)	10 blo arasiatu
102.	Find (63% of 3	$\frac{4}{7}$:								
	(A)	2.25		(B)	2.40		(C)	2.50		(D)	2.75
103.	Find t	the L.C.N	I. of $\frac{1}{3}$,	$\frac{5}{6}$, $\frac{2}{9}$,	4 27 :						
		4									None of these
TSG	001414	PT.									

	The ozone layer is useful for living beings because: (A) It serves as the source of oxygen (B) It maintains the temperature of the earth (C) It maintains the Nitrogen cycle of the earth (D) It protects them from harmful ultraviolet rays of the sun							
	(D)	It protects them	from	harmful ultravio	let ray	's of the sun		
105.	If 15 (A)	% of x % of $582 =$	17.46 _(B)	, then find the va	alue of	f 'x' :	(D)	20 (A)
			15/				hovin	oud (D)
106.	Iden	tify the Mughal E ry at Surat :	mper	or who gave perr				y to establish their
	(A)	Akbar	(B)	Jahangir	(C)	Shahjahan	(D)	Aurangzeb
107.	Who	is the winner of	Men's	Singles Title in	Wimb	ledon, 2014 in Te	ennis ?	
	(A)	Roger Federer	(B)	Rafael Nadal	(C)	Marin Cilic	(D)	Novak Djokovic
108.	Whi		owing	; is generally add	ded to	Table Salt to ma	ke it f	low freely in rainy
		$Ca_3(PO_4)_2$	(B)	Na ₃ PO ₄		unal Day IOX trat Day (Clean	()	
109.	Whi (A) (C)	ch Junction Trans Common Collec Common Emitte	ctor	(B)	Con	put and low out nmon Base one of these		
110.	In S	and Moulding, th	e top	flask is known a	s:		.eerov	idaeH (0)
		Cope	(B)		(C)	Fillet	(D)	Check
111.		ch one of the follo	owing	problems is not	create	ed by Noise Pollu	tion?	120. The power
	(A)	Diarrhoea	(B)	Hypertension	(C)	Deafness	(D)	Irritation
112.	mea	certain code lang ans 'buy good boo 5	oks'.	Which number in	n that	language means	are ?	n is old' and '378'
113.	(A)	Moisture conte	nt	(B)	Cap	ercolate through in pillarity ne of these		122. Who I: blue (A) U Mu (C) Patria
114.		per Census, 2011. 914		nt is the Sex Ratio	(C)	No. of Females p	er 1000 (D)	Males) of India? 956

115	. If lo	$g_{10} 7 = x$, then the	value of $\log_{10}\left(\frac{1}{2}\right)$	$\left(\frac{1}{70}\right)$ is equ	ual to :		
	(A)	-(1+x)	(B) $(1+x)^{-1}$	(C	(1) $\frac{x}{10}$	(D) $\frac{1}{10x}$	
116.	(A) (C)	ich of the followin Hard water Deionized wate		(B) M	n nuclear rea ineral water eavy water	actors ?	
117.	Vale	ence electrons in th ned from A and B	e element A are 3 is :	and that i	n element B a	are 6. Most probable comp	ound
	(A)	A_2B	(B) AB ₂	(C	A_2B_3	(D) A ₃ B ₂	
118.	Sard	ar Patel was born observed as :	on October 31,	1875. His	birth annive	ersary on October 31, this	year
	(A) (B) (C) (D)	Rashtriya Ekta I Anti-Corruption Anti Communal Swachh Bharat I	Day Day) 2 99-872 (8)		
119.	A co	rrect food chain is	vol bas rugar dy				
	(A) (B) (C) (D)	Producers, Herbi Producers, Carni Herbivores, Carn Herbivores, Prod	vores, Herbivore ivores, Producer	S	Sibe (
120.	The p	oower of a single p	ohase AC circuit	is given b	V:		
	(A)	VI	(B) VI cos φ	(C)	VI sin φ	(D) None of these	2
121.		itt trigger is used					
	(A) (C)	Voltage to freque Squaring a wave	ncy conversion	(B) Cha (D) Nor	nging the level of these	vel of the signal	
	(A)	is the Winner of F U Mumba Patna Pirates		(B) Jaip		lioz a lo vinagolor estr s hers a mutatolo (A.)	
123.	The M	MOSFET switch in	its on-state may	be consid	ered equivale	ent to : Menso 150 eA . I	
			(B) Capacitor	(C)	Inductor	(D) Battery	
TSG0	01414	ŀ				3	

VL					27							
124.	Spot	welding is an exa	mple	of	welding.							
	(A)	Gas				Resistance						
	(C)	Arc			(D)	Tungsten Ine	rt Gas					
125.	Alun	ninium is commonl	y use	ed as conduc	ctor m	aterial in trans	mission li	nes co	ompared to co	opper		
		It is more conduc	tive		(B)	Its tensile stre	ength is n	nore				
	(C) It is costlier					It is cheaper a						
126.	Who	is the winner of N	Jobel	Prize, 2014	in th	e field of Liter	ature ?					
	(A) Philip Roth					Patrick Modiano						
	(C)	Haruki Murakam	ui		(D)	Ngugi Wa Th	niong'o					
127.		plete the following		en series :								
		60		57		(C) 54		(D)	66			
128.	Whi	ch one of the follow	wing	years was	not a	Leap year ?						
	(A)	1900 A.D.	(B)	1904 A.D.		(C) 2000 A	.D.	(D)	1888 A.D.			
129.	Whi	ch of these will no	t be o	oxidised by	Ozon	e?						
		KI						(D)	K_2MnO_4			
130.		nplete the following										
		24, 60, 120, 210, _				(C) 110		(D)	260			
	(A)	336	(B)	240		(C) 410		(D)	300			
131.	A ba	arometer measures	:									
	(A)	Absolute pressur	e		(B) Atmospheric pressure							
	(C)	Gauge pressure			(D)	Vacuum						
132.	Atp	present, who is the	Chie	ef Justice of	India	? (As on 01.1	11.2014)					
	(A)	Justice H.L. Datt			(B)	(B) Justice R.M. Lodha						
	(C)	Justice P. Sathas	hivaı	m	(D)	Justice A. Ka	abir					
133.	. Wh	ich law of thermoo	dynai	mics defines	s Entr	opy?						
	(A)	Zeroth	(B)	First		(C) Second	d	(D)	Third			

134.	. Power Factor of the following circuit will be unity:											
	(A)	Inductance			(B)	Resi	stance					
	(C)	Capacitance	y trend'r		(D)	Indu	ictance and C	Capacitan	ce			
135.	Jitu	Rai won Gold Med	lal in the	e recent A	sian	Game	es in the follo	wing field	l ::::::::::::::::::::::::::::::::::::			
		Archery										
136.	The	The fatigue life of a part can be improved by:										
	(A)	Electroplating	(B) Po	lishing		(C)	Coating	(D)	Shot peening			
137.	If $t_{o'}$, t_{m} and t_{p} are the optimistic; most likely and pessimistic time estimates of an activity respectively; then the expected time 't' of the activity will be:											
	(A)	$\frac{t_0 + t_m + t_p}{3}$	(B) $\frac{t_o}{}$	+ 2t _m +	tp	(C)	$\frac{t_o + 3t_m + 5}{5}$	<u>t</u> _p (D)	$\frac{t_{o}+4t_{m}+t_{p}}{6}$			
138.	Who	of the following is	s regard	ed as the	arch	itect o	of the Indian (Constituti	on?			
		Pandit Nehru					Ambedkar					
	(C)	Mahatma Gandhi	i	eap year	(D)	Rajer	ndra Prasad					
139.	Find the value of:											
	(51 +	-52+53+54++	-100)									
	(A)	3775	(B) 508	50		(C)	1275	(D)	2525			
140.	The measurement of the speed of a rotating shaft by means of an electric tachometer is a:											
		Direct Measureme										
	(C)	Tertiary Measurer										
141.	Stefa	n Boltzmann Law i	is applic	able for I	Teat	Trans	fer by :					
		Conduction (B) Co	nvection		(C)	Radiation	(D)	All of these			
142.	To cl	ose a presentation		PowerPo					on on the :			
	(A)	menu bar		(B)	title b	ar					
	(C)	standard tool bar		Leoner (D)	comn	non tasks tool	bar				
143.	The l	pending of bimetall					erature is due					
	(A)	Coefficient of linear										
	(C)	Thermal conductiv										

144.	Chain surveying is well adopted for:
	(A) Small areas in open ground (B) Large areas with simple details
	(C) Small areas with crowded details (D) Large areas with difficult details
145.	An Amplifier has a power gain of 50. This gain in dB will be:
	(A) log 50 (B) 10 log 50 (C) 100 log 50 (D) 50 log 50
146.	If whole Circle Bearing of a line is 120°, then its Reduced Bearing is:
	(A) S 20°E (B) S 60°E (C) N 120°E (D) N 60°E
147.	Primary Storage, in computer terminology, refers to: (A) Hard Disc Drive
	(B) Random Access Memory (RAM)
	(C) Read Only Memory (ROM)
	(D) The storage device where the operating system is stored
148.	Which one of the following places was associated with the beginning of Vinoba Bhave's Bhoodan Movement?
	(A) Dandi (B) Kheda (C) Pochampalli (D) Champaran
149.	If a system in equilibrium is subjected to a change of concentration; temperature or pressure the equilibrium shifts in a direction that tends to undo the effect of the change imposed. This is known as:
	(A) Le Chatelier's Principle (B) Law of Mass Action
	(C) Van der Waals Principle (D) None of these
150.	Errors which may be variable both in magnitude and nature (positive or negative) are classified as error.
	(A) Hysteresis (B) Random (C) Interaction (D) Systematic