CEN.No.02/2014 Post : Junior Engineer D.O.E. : 14-12-2014

QUESTION BOOKLET

Duration : 120 Minutes समय : 120 मिनट	Exam Code : TSD001 परीक्षा कोड :			
No. of Pages / पृष्ठों की संख्या : 240	Total Marks / कुल अंक : 150			
Roll No. : अनुक्रमांक :	Question Booklet No. 7099712 प्रश्न पुस्तिका संख्या :			
Date of Examination : परीक्षा तिथि :	OMR Answer Sheet No. OMR उत्तर शीट क्रमांक			
Candidata's Nama / Halismoff and all	Candidate's Signature / परीक्षार्थी के हस्ताक्षर			

*** As given in application form / आवेदन पत्र में दिये गये ***

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।

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Section / भाग	Language / भाषा	प्रश्नों की संख्या	From / से	To / तक
Section-I	English / अंग्रेजी	150	15	34
Section-II	Hindi / हिन्दी	150	35	58
Section-III	Urdu / उर्दू	150	59	78
Section-IV	Assamese / असामी	150	79	98
Section-V	Bengali / बंगाली	em EVE 150 em em	99	118
Section-VI	Gujarati / गुजराती	150	119	138
Section-VII	Kannada /	150	139	158
Section-VIII	Manipuri / मणिपुरी	150	159	178
Section-IX	Marathi / मराठी	150	179	198
Section-X	Odia / उड़िया	150	199	218
Section-XI	Telugu / तेलगू	150	219	238

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: आवेदन पत्र में मेरे द्वारा दिया गया सभी विवरण मेरी अधिकतम जानकारी के अनुसार सत्य और पूर्ण है। मैं समझता / समझती हूँ कि मूझे 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 तत्पश्चात 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।

Signature of invigilator / निरीक्षक के हस्ताक्षर | Centre / सैंटर | Deptt. / डिपार्टमैंट

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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 on page 1. Copying of the paragraph (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.
- (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. Check whether the booklet contains 150 questions and start the paper from Page No. 15.
- The question paper comprises 150 questions available in congruent versions of English, Hindi, Urdu, Assamese, Bengali, Gujarati, Kannada, Manipuri, Marathi, Odia, Telugu. In case of any doubt or confusion, English version shall prevail.
- 6. All Questions are of Objective type. There is only one correct answer/best 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, candidate 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 OMR 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 or at any specified space. No additional paper shall be provided.
- 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 top sheet of Question Booklet as well as the Answer Sheet should be handed over to the invigilator before leaving the Examination Hall.

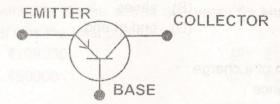
SECTION I ENGLISH VERSION

	(R) feed the casting at constant rate
1.	 A closed thermodynamic system is one in which (A) There is no energy or mass transfer across the boundary (B) There is no mass transfer, but energy transfer exists (C) There is no energy transfer, but mass transfer exists (D) Both energy and mass transfer take place across the boundary, but mass transfer is controlled by valves
2.	Pressure reaches a value of absolute zero
	(A) at a temperature of –273 K (B) under vacuum condition
	(C) at the earth's centre
	(D) when molecular momentum of system becomes zero
3.	Zeroth Law of Thermodynamics states that
	(A) Two thermodynamic systems are always in thermal equilibrium with
	each other (B) If two systems are in thermal equilibrium, then the third system will
	also he in thermal equilibrium
	(C) Two systems not in thermal equilibrium with a third system will also
	not be in thermal equilibrium with each other (D) When two systems are in thermal equilibrium with a third system they
	(D) When two systems are in thermal equilibrium with each other
4.	Heat is mainly transferred by conduction, convection and radiation in
	(A) Insulated pipes carrying hot water
	(B) Refrigerator freezer coil
	(C) Boiler furnaces (D) Condensation of steam in a condenser
	表现的企业,1000年中国的1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年中国1990年
5.	The discharge of Hydrocarbons from petrol automobile exhaust is
	minimum when the vehicle is (A) Idling (B) Cruising
	(A) Idling (C) Braking (D) Decelerating
HO	Which one of the following is an advantage of forging?
6.	(A) Good Surface Finish (B) Low tooling cost
	(C) Close tolerance (D) Improved physical property
7.	In a fillet welded joint, the weakest area of the weld is
	(A) Toe (B) Root
	(C) Throat (D) Face (D)

8.	Which one of the following is the correct statement?					
	Gate is provided in moulds					
	(A) feed the casting at co					
	(B) give passage to gase					
	(C) compensate for shrin	kage				
1	(D) avoid cavities		(C) There is no energy tran			
9.	Which of the following production	cesses is the w	riredrawing process?			
	(A) Compressive	(B)	Tensile			
	(C) Shear	(D)	Hydrostatic stress			
10.	Heat transfer in liquids and	l gases is esse	ntially due to			
	(A) Conduction					
	(B) Convection					
	(C) Radiation					
	(D) Conduction and Radi	ation put togeth				
liwe		lilione learned				
11.	Stroke of an I.C. engine ed	munda				
:oals	(A) half the crank radius	(B)				
	(C) twice the crank radius	(D)	four times the crank radius			
12.	The main constituent of mo	oulding sand is				
	(A) Clay	(B)	Silica			
	(C) Alumina	(D)	Iron Oxide			
13.	Seam Welding is					
	(A) a continuous spot we	ding process				
	(B) a multi-spot welding p	rocess				
	(C) an arc welding proces	s off enodies				
	(D) a thermit welding production	cess				
14.	Two transformers operatin their	g in parallel wi	Il share the load depending upon			
	(A) Ratings	(B)	Leakage Reactance			
	(C) Efficiency	(D)	Per Unit Impedance			
15.	Flow of electrons in circuit	constitutes				
	(A) magnetic charge	(B)	an e.m.f			
	(C) an electric current	(D)	an electric charge			
	which has been been a second to the		3-			

16.	Bulbs in street lighting are all connected in the world annual (A) parallel (B) series (C) series parallel (D) end of end				
17.	The electric field strength of a charge (A) increases with distance				
	(B) decreases with cube of distance				
	(C) decreases with distance about 19 ab				
	(D) decreases with square of distance				
18.	Which of the following is the unit of magnetic flux.				
	(A) tesla (B) coulomb				
	(C) weber (D) ampere-turn				
19.	The hysteresis loss in a given magnetic material may be decreased by				
	(A) laminating it				
	(B) increasing flux density through it and the state of t				
	(C) increasing frequency of reversal of magnetisation (A)				
	(D) decreasing maximum flux density established through it				
20.	Vacuum is considered as to see the second of				
	(A) Non-magnetic material (B) Diamagnetic material				
	(C) Paramagnetic material (D) Ferromagnetic material				
21.	Bakelite is a/an				
	(A) insulator (B) semiconductor (C)				
	(C) high resistance conductor (D) Low resistance conductor				
22.	Losses which do not occur in transformer but do occur in rotating electr	ic			
	machine are philippin (8) insmutant philippin (A)				
	(A) Copper losses abril (C) Inemutani priteridis (C)				
	(P) Magnetic lesses				
	(C) Friction and windage losses				
	(D) Hysteresis and eddy current losses				
23.	In Fleming's Right Hand rule, the thumb points towards				
	(A) direction of flux				
	(B) direction of induced e.m.f.				
	(C) direction of motion of conductor, if fore finger points along the lines flux	of			
	(D) direction of motion of the conductor if fore finger points in the direction of generated e.m.f.	ne			

24. Figure shown below represents a second s



(A) A power diode

- (B) Zener Diode
- (C) NPN Transistor
- (D) PNP Transistor
- 25. An antenna is a device which
 - (A) Converts electric Power into radio waves or vice versa
 - (B) Converts a sound wave to a magnetic signal
 - (C) Converts a sound wave of one wavelength to other
 - (D) Converts an AC to DC
- 26. Which of the following can provide a digital signal?
 - (A) Sine wave
 - (B) Square wave
 - (C) Gradual tuning of a potentiometer
 - (D) Slow change in the value of resistor
- 27. An inverter converts
 - (A) a DC power of low frequency to DC power of high frequency
 - (B) a DC to AC
 - (C) and AC of low frequency to an AC power of high frequency
 - (D) an AC to DC
- 28. Potentiometer is basically a
 - (A) Measuring instrument
- (B) Integrating instrument
- (C) Calibrating instrument
- (D) Indicating instrument
- 29. An element whose atoms have three valance electrons, the example of such element is
 - (A) Silicon

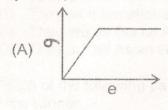
(B) Copper

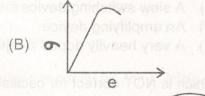
(C) Germanium

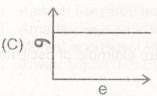
- (D) Aluminium
- 30. A NOR gate is called Universal Logic Gate because
 - (A) It can be used without need of any other gate type
 - (B) It can be used only with AND gate universally
 - (C) It can be used only with OR gate universally
 - (D) It can be used only with NOT gate universally

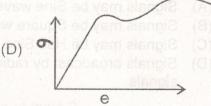
31.	A tunnel diode is		
31.	 (A) High resistivity p-n junction did (B) A slow switching device (C) An amplifying device (D) A very heavily doped p-n junction 	ode	
	(S) / (Very meanify depend p myamot	ion ai	
32.	 Which is NOT correct for oscillators (A) Signals may be Sine wave (B) Signals may be Square wave (C) Signals may be Half Sine wave (D) Signals broadcast by radio transignals 	е	ers are example of oscillator
33.	The output of a logic gate is '1' whe	en all	its inputs are '0'. Then the gate is
	(A) A NAND or an EX-OR Gate(C) An OR or an EX-NOR Gage	(B) (D)	A NOR or an EX–NOR Gate An AND or an EX–OR Gate
34.	Lime mortar is generally made with (A) Quick lime (C) Hydraulic lime	(B) (D)	Fat lime White lime
35.	The Modulus of Elasticity (E) of co (notations are conventional)	ncrete	e as per IS 456:2000 is given by
	(A) $E = 1000 f_{ck}$	(B)	$E = 5000\sqrt{f_{ck}}$
	(C) $E = 5500 \sqrt{f_{ck}}$	(D)	$E = 10000 \sqrt{f_{ck}}$
36.	In paints, linseed oil is used as (A) a solidifier (C) a vehicle	(B) (D)	a driver a water-proofing base
37.	A simply supported beam of span point load at its centre. The strain en	L and	flexural rigidity EI, carries a unit
	(A) $\frac{L^3}{48EI}$ (B) $\frac{L^3}{192EI}$	(C)	$\frac{L^3}{96EI}$ (D) $\frac{L^3}{16EI}$
38.	In terms of bulk modulus (K) and r can be expressed as	nodul	us of rigidity (G), Poisson's ratio
	(A) $\frac{3K-4G}{6K-4G}$	(B)	$\frac{3K+4G}{6K-4G}$
	(C) $\frac{3K-2G}{6K+2G}$	(D)	3K+2G van doldw strilog

39. The stress – strain curve for an ideally plastic material is (conventional symbols)

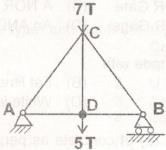








40. What is the force in the vertical member CD of the pin – jointed frame shown below?



(A) 12T (Tension)

- (B) 2T (Compression)
- (C) 7T (Compression)
- (D) 5T (Tension)

41. In a situation where torsion is dominant, which one of the following is the desirable section?

(A) Angle Section

(B) Channel Section

(C) I-Section

(D) Box-Type Section

42. Lateral ties in RCC columns are provided to resist

- (A) Bending moment
- (B) Shear
- (C) Buckling of longitudinal steel base
- (D) Both Bending moment and Shear

43. In a Cantilever beam carrying gravity load, main reinforcement to resist Bending moment is provided

- (A) above the Neutral Axis
- (B) as vertical stirrups
- (C) as a helical reinforcement
- (D) below the Neutral Axis

44. In fluid flow, the line of constant piezometric head passes through two points which have the same

(A) Elevation

(B) Pressure.

(C) Velocity

(D) Velocity potential

- 45. A 30m metric chain is found to be 0.1m too short throughout the measurement. If the distance measured is recorded as 300m, then the actual distance measured will be
 - (A) 300.1 m

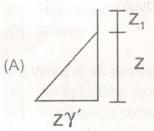
(B) 301.0 m

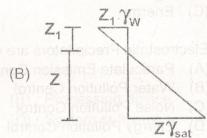
(C) 299 m

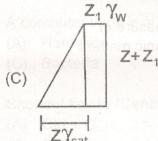
(D) 310 m

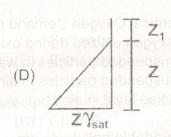
- **46.** Which one of the following methods of levelling eliminates the error due to curvature and refraction?
 - (A) Fly levelling
 - (B) Levelling by equalizing the distances of backsight and foresight
 - (C) Check levelling
 - (D) Precise levelling
- 47. Which one of the following diagrams represents the effective pressure distribution for a saturated soil mass of depth 'Z' submerged under water of height 'Z₁'above its top level.

 $(\gamma_{sat} = sat. density of soil, \gamma_w = unit wt. of water, \gamma' = submerged density of soil)$









- 48. Illumination is measured using which one of the following.
 - (A) Millivoltmeter

(B) Stroboscope

(C) Lux meter

(D) pH meter

- 49. Alternating Current can be measured by
 - (A) Moving iron repulsion type voltmeter
 - (B) Permanent Magnet type Ammeter
 - (C) Electronic Voltmeter
 - (D) Induction Ammeter

901	(A) (B) (C)	Low values of current and high High values of current Low values of voltage Resistance values		es of current amendament es of current amendament constant functions (A)
51.	(A)	ggar is an instrument to measure Q of a coil very low resistance	(B) (D)	Inductance of a coil Insulation Resistance
52.	(A) (B) (C)	nultimeter consists of Current and Ohm meter Voltmeter and Ohm meter Voltmeter and Current meter Voltmeter, Current meter and O	hm r	(B) Leveling by equalification (C) Oneck leveling (D) Precise leveling (D) Which one of the other
53.	15		loba	Warming by Greenhouse gases
	(A) (C)	Agriculture Energy	(B) (D)	Deforestation (los los los los los los los los los los
54.	(A)	ctrostatic Precipitators are devices Particulate Emission Control Water Pollution Control Noise Pollution Control Energy Pollution Control	s for	en were see A.Z. euran Ziaqui (V)
55.	Biod (A) (B) (C) (D)	chemical Oxygen Demand (BOD) Oxygen utilized during oxidation Suspended particles in water Suspended particles in air Noise level in air	of o	rganic matters
56.	Biod (A) (B) (C) (D)	legradable pollutants are quickly degraded by natural mea can not be degraded can be degraded by burning only disposed in flowing water only	ns	
57.	Whice (A) (B) (C) (D)	Inorganic chemicals		49. Alternating Current can be (A) Moving from repulsion (B) Permanent Magnet (C) Electronic Voltmete (D) Induction Amingster

58.	Inac	computer, a compiler is		66. In a computer, Vinual Me			
		(A) a program that places programs into memory and prepares them for execution					
		machine language		ation of assembly language into			
		and produces an object prograr	n	written in a high level language			
		machine language		te a source program if it were			
				(B) the order in which dis			
59.	betw	een the user and		serves as a software interface			
	(A)	hardware	(B)				
	(C)	memory to the X to 3 ent to	(D)	Screen gnineenigna 103 .83			
60.		th of the following hardware collation of database management		ents is the most important to the			
	(A)	High-resolution video display	-,				
		Printer					
	(C)	High-speed large-capacity disk					
	(D)	Plotter					
61.	MSV	Word is an example of					
	(A)	An operating system	(B)	Processing device			
	(C)	Application software	(D)	System software			
62.	A co	mputer virus is a		70. / Match Col. X (Line Type) v			
76	(A)	Hardware	(B)	Software			
	(C)	Bacteria Management of the Control o	(D)	Freeware			
63.	Shor	tcut key to "Centre Align" the se	electe	ed text in MS Word is			
• • • • • • • • • • • • • • • • • • • •	(A)	그래요요요. 그렇게 되는 그 그렇게 하는 것이 되는 것이 되는 것이 없는 것이 없었다. 그는 그리고 있다.		Ctrl + E			
	(C)	Ctrl + F	(D)	Ctrl + X			
64.		software in computer that		sfers the object program from			
04.		ondary memory to the main men					
	(A)	Assembler	(B)	Loader memerate for W			
		Linker seem entree ent yd bete	(D)	Task builder (A)			
65.	In a	computer, the system identifies		(B) A visible line has prec			
00.		Name		Absolute Path			
	(C)	File owner	' '				
				a touloave namor			

(A)	an extremely large main memo	-	
			nory
(D)	a type of memory used in supe	r com	nputers (0)
	the state of the first transfer and the state of the stat		에 많은 15일 다른 사람들이 되었다. 그런 이 아이를 보고 있다면 보고 있다면 보고 있다. 그리고 있다. 그리고 있다.
(B)			
(C) (D)			
(0)	(B) peripheral (B)	(D)	
For		e Col	
123			Col. Y (Use)
		1.	Sub-Titles
			Dimensions
		3.	Main Titles
(A)	P-3, Q-1, R-2	(B)	P-2, Q-1, R-3
(C)	P-3, Q-2, R-1	(D)	P-2, Q-3, R-1
For	drawing engineering curves, whi	ch is	correct option (e = eccentricity)
			For Parabola, e < 1
		, ,	For Parabola, e = 1
Mate	ch Col. X (Line Type) with Col. Y	(Apr	olication)
		1, 100	Col. Y
Р		1	Centre lines
			Ground lines
	at move 2 M of that hardeles an		Hidden edges
S		4.	Long break lines
(A)	P-2, Q-1, R-4, S-3	(B)	P-3, Q-1, R-2, S-4
		, ,	P-2, Q-1, R-3, S-4
	(A) (B) (C) (D) In a (A) (B) (C) (D) For P. Q. R. (A) (C) Mate P Q R S (A)	(B) an extremely large secondary r (C) an illusion of an extremely large (D) a type of memory used in supe In a computer, Disk scheduling invol (A) which disk should be accessed (B) the order in which disk access (C) the physical location where files (D) None of these For Engineering Drawings, match the Col. X (Type) P. Large sized letters Q. Medium sized letters R. Small sized letters (A) P-3, Q-1, R-2 (C) P-3, Q-2, R-1 For drawing engineering curves, whi (A) For Ellipse, e > 1 (C) For Hyperbola, e = 1 Match Col. X (Line Type) with Col. Y Col. X P ——————————————————————————————————	(A) an extremely large main memory (B) an extremely large secondary memory (C) an illusion of an extremely large memory (D) a type of memory used in super commodition in the super commodition in t

- 71. Which statement is NOT correct in respect of Engineering Drawings.
 - (A) Circular Features are Indicated by the centre lines
 - (B) A visible line has precedence over a hidden line
 - (C) The faces perpendicular to the direction of viewing are seen as edge views
 - (D) In Isometric projection, an isometric scale is used

Select the correct option: Issuence at wheaping prisonled ent to do not 72.

The isometric projection of a circle is

(A) Ellipse

(B) Parabola

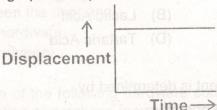
(C) Hyperbola

- (D) Circle
- Light Year is the unit of 73.
 - (A) time

(B) distance

(C) speed of light

- (D) intensity of light
- In the graph of displacement versus time shown below, which is correct. 74.



- (A) the body is at rest
- (B) the body has some initial speed
- (C) the body moves with constant speed
- (D) the body moves with constant velocity
- 75. A man is standing on a boat in still water. If he walks in the boat towards the shore, the boat will
 - (A) move away from the shore (B) remain stationary
- - (C) move towards the shore and of (D) Sink and even year (8)
- Relative Humidity is the percentage of the 76.
 - (A) absolute humidity value to the amount of humidity actually present
 - (B) increase of humidity/absolute humidity
 - (C) amount of humidity actually present to the absolute humidity
 - (D) None of these
- With conventional symbols, the Lens formula is given by 77.
 - (A) $\frac{1}{v} \frac{1}{u} = \frac{1}{f}$
- (C) $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$
- (D) u + v = f
- A magnifying glass comprises a simple 78.
 - (A) Convex lens

(B) Convex mirror

(C) Concave lens

(D) Concave mirror

79.	VVI	Which of the following property is generally NOT shown by metal?						
	(A)	Electrical conduction	(B)	Sonorous in nature				
		dullness signature (G)						
80.	The	e state in which molecular attrac	ctions	are very strong is				
	(A)		(B)	Liquid				
	(C)	Gas	(D)	Vapour Design (O)				
81.	Wh	ich of the following acids is pres	sent in	sour milk ?				
	(A)		(B)	Lactic Acid				
	(C)	Citrus Acid	(D)	Tartaric Acid				
82.	The	e atomic number of an element	is dete	rmined by				
	(A)	the number of electrons in one	e atom	Sais-Tidee				
	(B)	(B) the number of neutrons in one atom						
	(C)	the valency of the element	os mu Lallen					
	(D)	the number of protons in one	atom					
83.	Elei	ments belonging to the same gause	group	have similar chemical prope	erties			
	(A)	they are all metallic elements		The shore; use space with				
	(B)	they have similar electronic co						
	(C)	atomic number increases on n						
	(D)	None of these	meon	Relative Humidity is the pe				
84.	Whi	ch of the following alloys contai	ne Tin	(A) acsolutementality (A) increasesofiliumutility (B)				
	(A)	Brass	(B)	Solder (3)				
	(C)	Duralumin	(D)	Steel				
85.	In h	umans, bile juice is secreted by						
	(A)	pancreas	(B)	small intestine				
	(C)	esophagus	(D)	liver				
86.	Whi	ch of the following is connected	with tr	ransport of water in plants 2				
	(A)	Phloem	(B)	Xylem Xylem				
	(C)	Epidermis	(D)	Cambium (A)				
				(C) Concave lens				

87.	Nen	hrons are connected with						
01.	A	Respiratory System	(B)	Nervous System				
		Circulatory System	(D)	Excretory System				
88.	Sigh	it of delicious food usually ma	kes mou	uth watery, it is a				
00.	(A)	C agrat of changes 60 ass	(B)	Neural response				
	,	Optic response	(D)	Olfactory response				
89.	Jaur	ndice is a disease of						
	(A)	Kidney	(B)	Pancreas				
	(C)	Liver gniwomu7 (G)	(D)	Duodenum (a)				
90.	Defi	ciency of Vitamin C causes						
	(A)	rickets	(B)	beriberi				
	(C)	scurvy	(D)	night blindness				
91.	The	Radcliffe Commission was ap	pointed	(D) Easterly Disturband I				
	(A)							
	(B)	(B) Give effect to the Independence Bill						
	(C)	Delimit the boundaries between	een Indi	a and Pakistan				
	(D)	Enquire into the riots in East	Bengal	T MBSCA (LV)				
92.		The Governor General of India at the time of foundation of Indian National Congress was ?						
	(A)	Lord Chelmsford	(B)	Lord Dalhousie				
	(C)	Lord Dufferin	(D)	Lord Canning				
93.	Wh	o was the advocate at the fam	ous tria	Is of three INA Soldiers?				
	(A)	Bhulabhai Desai	(B)	Asaf Ali				
	(C)	Subhash Chandra Bose	(D)	C. Rajagopalachari				
94.		Consolidated Fund of India is						
	(A)	(A) All taxes except Income Tax collected by the Union as well as State Governments are deposited						
	(B)	All money received by or deposited	on beha	alf of the Government of India is				
	(C)	this formal		ments make equal contribution to				
	(D)	Savings of Union and State	Govern	ments are deposited				

95.		Which part of the Indian Constitution reflects the mind and ideals of the framers?					
	(A)	Preamble	(B)	Fundamental Rights			
	(C)	Directive Principles	(D)	Emergency Provisions			
96.	Hov	v long can a Presidential Ordina	nce re	emain in force ?			
	(A)	One year	(B)	Two months			
	(C)	Till the President revokes it	(D)	Six months			
97.	The	most effective farming method	for ret	turning minerals to the soil is			
		Contour ploughing	(B)	Terracing			
	(C)	Crop rotation	(D)	Furrowing			
98.	Win	ter rains in North-Western India	are c	aused by Will To vanelaned .09			
	(A)	Western Disturbances					
	(B)	South West Monsoon					
	(C)	South Easterly Disturbances					
	(D)	THE DAY					
99.		iranga National Park is in					
	(A)	Uttar Pradesh	(B)	Tamil Nadu			
	(C)	Assam	(D)	Kerala om pumpna (0)			
100.	The	concept of joint sector implies c	THE RESERVE AND DESCRIPTION OF THE PERSON OF				
	(A)	Public Sector and Private Sector	or Ind	ustries o gam assigned			
	(B)	State Government and Central		ernment Enterprises			
	(C)	Domestic and Foreign Industrie					
	(D)	Cooperation between two Gove					
101.	prov	ch of the following is an apex	finar on c	ncing agency for the institutions redit for promoting the various			
	(A)	RBI	(B)	NABARD			
		SIDBI Maldwark prut a at	, ,				
		Tido airi					
	(A)	to provide technical assistant development	e to	stimulate economic and social			
	(B)	to promote International Trade					
	(C)	to promote cooperation on Envi	ronm	ental Problems			
	(D)	to help establish Child Health a	nd We	elfare Services (0)			

103.	(A)	R Cup is related to International Badminton (Men) International Volleyball (Men) International Volleyball (Womel International Badminton (Womel	ind with the second of the sec				
104.	Which Country of Africa which was highly affected by disease Ebola has been declared Ebola-free by WHO?						
	(A)	Sierre Leone	(B)	Liberia nez synamA (6)			
	(C)	Nigeria	(D)	Guinea			
105.	India	India's First Bank exclusively for Women is					
	(A)	Mahila Kalyan Bank	(B)	Bhartiya Mahila Bank			
	(C)	Bharti Bank	(D)	SIDBI _{NSH} ubrishada (0)			
106.	First Sportsperson to be conferred with Award "Bhart Ratna"						
	(A)	Sachin Tendulkar	(B)	이 그림을 하는 것이 없는 것이다.			
	(C)	Balbir Singh	(D)	Vijay Amritraj			
107.	Nex	t Asian Games in 2018 shall be	held i	R Tamasha emi ejiriv S Nautanki ni			
	(A)	Seoul see see (1) (a) cond	(B)	Bangkok			
	(C)	Kualalumpur (0)	(D)				
108.	Who	Who was recently sworn in as President of Afghanistan?					
	(A)	Abdullah Abdullah	(B)	Hamid Karzai			
	(C)	Ashraf Ghani	(D)	B. Rabbani			
109.	Who among the following did not win a medal in Asian Games 2014?						
	(A)	Yogeshwar Dutt	(B)	Sushil Kumar			
	(C)	Abhinav Bindra	(D)	Jitu Rai			
110.	What among the following is planned to be developed under "Sansad Adarsh Gram Yojana" of Central Government.						
	(A)	Village	(B)	Smart Cities Management			
	(C)	River Cleaning		Roads m EST (0)			
111.	Por	oular TV programme "Satyamev		" is anchored by so 20 bas			
		Salman Khan		Akshay Kumar			
	` '	Amitabh Bachchan		Aamir Khan			
	(0)	Timidon Daononan	(0)	53(17/0) CV(7 (U)			

112.	What is common amongst Mahesh Bhupathi, Ivan Lendl, Roger Federer? (A) They are all Arjun Award winners (B) They all International Tennis players (C) They are all Social Activists (D) They are all Asian Games medal winners			
113.	Which of the following pairs was announced recently as Joint Noble Peace Prize winner. (A) Kailash Satyarthi and Malala (B) Amartya Sen and Benazir (C) Morkel and Hosni Mubarak (D) Anwar Sadat and Begin			
114.	Who is called the Father of Hindi Theatre of India? (A) Raja Harish Chandra (B) Dada Sahib Phalke (C) Bhartendu Harishchandra (D) Prithvi Raj Kapoor			
115.	Match Col. A (Dance type) and Col B (State). Col. A P Bihu 1. Gujarat Q Garba 2 U P R Tamasha 3 Assam S Nautanki 4 Maharashtra			
	(A) P-4, Q-1, R-2, S-3 (C) P-3, Q-1, R-2, S-4 (D) P-1, Q-4, R-2, S-3			
116.	What is the largest possible length of a scale that can be used to measure exactly the lengths 3 m, 5 m 10 cm and 12 m 90 cm? (A) 10 cm (B) 20 cm (C) 25 cm (D) 30 cm			
117.	A student was asked to find answer by dividing a number by 3. But, instead of dividing it, he multiplied it by 3 and got 29.7. What was the correct answer? (A) 3.3 (B) 9.3 (C) 9.8 (D) 9.9			
118.	After measuring 120 metres of a rope, it was discovered that the metre rod was 3 cm longer. The true length of the rope measured is: (A) 116 m 40 cm (B) 121 m 20 cm (C) 123 m (D) 123 m 60 cm			
119.	A bag contains three types of coins i.e. one rupee coins, 50 paisa coins and 25 paisa coins totalling 175 coins. If the total value of the coins of each kind be the same, the total amount in the bag is (A) ₹75 (B) ₹126 (C) ₹175 (D) ₹300			

120.	If $X = Y + \sqrt{\frac{4}{Z}}$ then $Z = ?$	142 X X X Started e bearings Start of the second of the se		
	(A) $4(X^2 - Y^2)$	(B) $\frac{4}{\sqrt{X^2 - Y^2}}$		
	(C) $4(X - Y)^2$	(D) $\frac{4}{(X-Y)^2}$ 000089 (O)		
121.	Solve $\sqrt[3]{0.000064} = ?$			
121.	(A) 0.4 (C) 0.004	(B) 0.04 (D) 0.0004		
122.	3 years ago because an old m	of a committee is the same as it was nember has been replaced by a new the ages of old and new member is (B) 4 years (D) 15 years		
123.	The product of two positive number then the sum of two numbers is (A) 25 (B) 125	ers is 2500. If one is four times the other, (C) 225 (D) 250		
124.	A is 2 years older than B who is to of A, B, C be 27 years, then how of (A) 9 years (C) 10 years	wice as old as C. If the total of the ages old is B? (B) 8 years (D) 11 years		
125. A bucket contains 2 litres more water when it is filled 80% in cowhen it is filled $66\frac{2}{3}$ %. What is the capacity of the bucket?				
	(A) 10 litres	(B) 15 litres		
	(C) $66\frac{2}{3}$ litres	(D) 20 litres		
126.	1 Kg. His gain percent is			
	(A) 9% (B) 10%	(C) 11% (D) $11\frac{1}{9}$ %		
127.	The selling price of a table is $\frac{4}{3}$ tin	mes its cost price. The gain percent is		
	(A) $20\frac{1}{3}\%$ (B) $20\frac{1}{2}\%$	(C) $25\frac{1}{4}\%$ (D) $33\frac{1}{3}\%$		
128.	. If A exceeds B by 40% and B is le (A) 3:1 (B) 3:2	ess than C by 20%, then A : C = ? (C) 26:25 (D) 28:25		

129	respectively. At the end of one	by investing ₹27000, ₹81000 and ₹72000 by year, Y's share of total profit was ₹36000.
	What was the total profit?	
	(A) ₹108000	(B) ₹116000
	(C) ₹80000	(D) ₹92000 (Y – X)A (O)
130.	The state of the s	0% more time than Q. If together they take now much time shall Q take to do it? (B) 35 days (D) 45 days
131.	Two pipes can fill a tank in 20 n the pipes are opened simultane (A) 10 minutes (C) 15 minutes	ninutes and 30 minutes respectively. If both ously, then the tank will be filled in (B) 12 minutes (D) 25 minutes
132.	of the journey in 5 hours. His av	erage speed for the whole journey is:
	(A) $6{11}$ km/hr	(B) 7 km/hr
	(C) $7\frac{1}{2}$ km/hr	124 A is 2 years older than B who is living a living a contact that C be 27 yearh/mx 8 (D) and
133.		crosses a pole in 30 seconds. The length
	(A) 500 m	126. A bucket contains 2 m 07 (B) water
		(D) 1000 m as belle at menw
134.	Simple Interest on ₹500 for 4 y Simple Interest on ₹400 at 5% p period of time is	ears at 6.25% per annum is equal to the er annum for a certain period of time. The
101 tr	(A) 4 years	(B) 5 years
	(C) $6\frac{1}{4}$ years	(D) $8\frac{1}{3}$ years 9 9 9 9 9 1 9 1
135.	THE SUIT IS	ars at 8% per annum compound interest.
	(A) ₹2750(C) ₹2625	(B) ₹2500 to song pulles en 7 751 (D) ₹2560
136.	(A) 88 cm ²	the same perimeter. The sides of the What is the area of the circle? (B) 154 cm²
	(C) 616 cm ²	(D) 1250 cm ² (A)
rspoo	1111	

	33	1004			
(C) Library	(D)	Books			
(A) Rack	(B)	Newspaper			
Manus Foods & Catalague 2					
(C) Editor : Newspaper	(D)	Sailor : Ship			
(A) Shoes: Leather	(B)	Shirt : Trousers			
Prism : Glass : : ?		bridensaugh (f. spajarin (j.khi lenser) 🛶			
Directions: (Question No. 143	and	Question No. 144): Select the			
(O) Dacab	(0)				
	, ,	bcaca			
	(B)	abaca			
In given letter series, some of the letters are missing which are given in					
(C) LVK	(D)	LVVP			
		LWP 1819 and Automatic Barr			
	(D)	148. Machine Lathe, Mathema			
		面前转动大名前 动脉的复数			
	pets. C	hoose the option to replace ? to			
(C) 94	(D)	122			
(A) 64	(B)	86			
1, 4, 10, 22, 46, <u>?</u>	,				
For given number series, select the option which shall replace ? to					
VZ		N3 jes nevig joi magaid.			
(C) $\frac{30}{\sqrt{2}}$ m	(D)	m aud) randdaarid			
		50√3 m			
A kite is flying at a height of 75 m from the level ground, attached to a string inclined at 60° to the horizontal. The length of the string is					
A Lite is fixing at a beight of 75 m from the level ground attached to 3					
(C) 60°	(D)	90°			
(A) 30°					
If an angle is its own complementary angle, then its measure is					
A is shorter than B but latter than I					
이 나는 얼마나 없는 아무리 아무리를 되었다면 사람이 되었다면 하는데		2496 cm ³			
(A) 3234 cm ³	(B)	1078 cm ³			
113 Volume 15					
The height of a right circular cone Its volume is					
	 (A) 30° (C) 60° A kite is flying at a height of 75 string inclined at 60° to the horizon (A) 50√2 m (C) 50/√2 m (C) √2 m For given number series, select continue the pattern in series. 1, 4, 10, 22, 46, ? (A) 64 (C) 94 Given below is a series of alphabic continue the series. PMT, OOS, NQR, MSQ, ? (A) LUP (C) LVR In given letter series, some of the that order in options. Select the combcc_ac_aabb_ab_cc (A) aabca (C) bacab Directions: (Question No. 143 analogous option for given words. Prism: Glass: ? (A) Shoes: Leather (C) Editor: Newspaper Menu: Food:: Catalogue: ? (A) Rack 	If an angle is its own complementary angle (A) 30° (B) (C) 60° (D) A kite is flying at a height of 75 m from string inclined at 60° to the horizontal. The (A) 50√2 m (B) (C) √2 m (B) (C) √2 m (B) (C) √2 m (D) For given number series, select the continue the pattern in series. 1, 4, 10, 22, 46, ? (A) 64 (B) (C) 94 (D) Given below is a series of alphabets. Continue the series. PMT, OOS, NQR, MSQ, ? (A) LUP (B) (C) LVR (D) In given letter series, some of the letter that order in options. Select the correct of bcc_ac_abb_ab_cc (A) aabca (B) (C) bacab (D) Directions: (Question No. 143 and analogous option for given words. Prism: Glass::? (A) Shoes: Leather (B) (C) Editor: Newspaper (D) Menu: Food:: Catalogue:? (A) Rack (B)			

TSD00	1414	34		1004
TOPAG	(C)	(D)	9001 VI610	144 Menu (A) R (C) L
			The letter	3 (3)
	Shirt Table (8	(B)	Pulmae Leson	/143. (10 sm) (A) S
	(A) \	show in M	O A NO SUO	rae (i) (i) Qolsivi)
	Answer Figures			
			sodi	(E (2A)
	1 1	•	2	
150.	Select the option which cont Problem Figures	inues the pattern	n in given proble	m figures.
149.	Mercury, Mars, Planets			(a)
148.	Machine, Lathe, Mathematic	cs	DOS, NIGR, MSC	TM-9 CL (A)
	remarkation of Consections		ettes action	141. Giren continu
	(c) (O)		(D)	9, (2) (1)
	88	9)		OF CALLY.
	(A) ()	ent, trales, user	(B) (D)	eg 1691 - 664 usuago
	Diagram for given set of wo	rds.	(140): 0110	ose the option
	Directions: (Question No.		HI W.Y	ose the ontion
	(A) North (C) East	(B) S (D) W	outh Vest	
147.	You go North, turn right, th direction are you now?	en right again ar	nd then go to th	e left. In which
	and two persons shorter that (A) A (B) B	(C) E	(D)	D
146.	A, B, C, D and E are five fr tallest. D is shorter than B	and taller than	er than B but tal A. Who has two	ler than E. C is persons taller
	(A) Gallon (C) Quintal		on Glogram	nulov all SE (A)
145.	Select the odd word option.			