## निर्देश

PRB Kolkata

(कृपया ध्यानपूर्वक पढ़ें और जनुपालन करें)

- कृपया सारी हिदायतों को ध्यानपूर्वक पढ़िए तथा OMR उत्तर-शीट पर दी गई हिदायते मी पढ़िये और तसके 1. उपरान्त OMR उत्तर-शीट और प्रश्न पुरितका में दिये विस्तृत वर्णन की पूर्ति कीजिए।
- पृष्ठ संख्या 1 में हिन्दी तथा अंग्रेजी का एक-एक अनुच्छेद दिया गया है। अनुच्छेद की नकल का हस्तलिखित 2 OMR उत्तर शीट पर (उसी भाषा में जिस भाषा में आवेदन-पत्र पर लिखा गया है) होना अनिवार्य है। ब्लॉक लेटर्स में न लिखें।
- (क) प्रश्न-पुरितका की शृंखला संख्या का साफ लिखना व चिन्हित करना (बुलबुलों में) OMR शीट में दिये 3. स्थान में जरूरी है।
  - (ख) प्रश्न-पुस्तिका में दिये स्थान में OMR शीट संख्या निखिए।
- बुकतेट खोलने के अनुदेश के बाद, परीक्षाओं सीलों को खोलें। यह जांच कर लीजिए कि बुकलेट में 150 प्रश्न है, और प्रस्म पत्र का असम्ब धम्मे न, 15 से हैं।
- प्रश्न पत्र में कुल 150 प्रश्न हैं जो कि अंग्रेजी हिन्दी उर्दू जसामी बंगाली, गुजराती, कन्नड, मुलिपुरी, मराठी, 5. चढ़िया और तेलगू भाषाओं के समनुका कपानारणों में जगलका हैं। किसी संदेश अथवा लंशय की स्थिति में अंग्रेजी रूपान्तरण मान्य होगा।
- सभी प्रश्न वास्तविक प्रकार के हैं। प्रत्येक प्रश्न का केवल एक ही सही / श्रेष्ठ उत्तर है जिसके लिए एक अंक 6 निर्धारित है, गलत उत्तरों के लिए नाकासत्मक अंक दिए आएने। प्रत्येक मलत उत्तर के लिये 1/3 अंक काटा जायंगा।
- किसी प्रश्न / प्रश्नों के गलत होने पर, प्रत्याशी को दण्डित नहीं किया जायेगा। ध्यान रहे कि परीक्षा के दौरान 7. प्रश्तों का संशोधन नहीं किया जायेगा।
- आपको खतार देने के लिए केवल नीले या काले बॉल-पॉइंट पेन का प्रयोग करना चाहिए। उत्तर की प्रविद्धि एक 8. बार किए जाने के पश्चात् उसमें संशोधन की अनुमति नहीं है। उत्तर-पत्रक में उत्तर सावधानी के साथ भरें।
- कच्चा (रफ) कार्य यदि कोई है, प्रश्न-पुरितका में पुरितका में उपलब्ध कराए गए स्थान में ही किया जा सकता है। अतिरिक्त कागज उपलब्ध नहीं कराया जाएगा।
- लॉन तालिका, कैलकुलेटर स्लाइड रूल, मोबाईल फोन, पंजर डिजिटल डायरी अथवा किसी अन्य इलेक्ट्रीविक बाइटम / उपकरण इत्यादि के प्रयोग की अनुमति नहीं है। उनके प्रयोग का परिणाम अयोग्यता होगा।
- कोर्व की परीकार्थी अंतिन घंटी बजने से पूर्व परीक्षा बील से बाहर नहीं जाएगा। परीका बील ओक्ने से पूर्व पर म का कार पेज और जनार-पत्रक दोनों निरोक्षक को बीचे जाने साहिए।

## SECTION I **ENGLISH VERSION**

- A tunnel diode is 1
  - (A) High resistivity p-n junction diode
  - (B) A slow switching device
  - (C) An amplifying device
  - (D) A very heavily doped p-n junction diode
- Which is NOT correct for oscillators. 2.
  - (A) Signals may be Sine wave
  - (B) Signals may be Square wave
  - (C) Signals may be Half Sine wave
  - (D) Signals broadcast by radio transmitters are example of oscillator signals
- The output of a logic gate is '1' when all its inputs are '0'. Then the gate is either
  - (A) A NAND or an EX-OR Gate
- (B) A NOR or an EX-NOR Gate
- (C) An OR or an EX-NOR Gage
- (D) An AND or an EX-OR Gate
- Lime mortar is generally made with
  - (A) Quick lime

Fat lime

(C) Hydraulic lime

- (D) White lime
- The Modulus of Elasticity (E) of concrete as per IS 456:2000 is given by 5. (notations are conventional)
  - (A) E = 1000 fck

(B)  $E = 5000 \sqrt{f_{ck}}$ 

(C) E = 5500 Vfck

- (D) E = 10000  $\sqrt{f_{ck}}$
- In paints, linseed oil is used as
  - (A) a solidifier

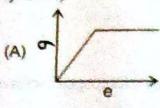
(B) a driver

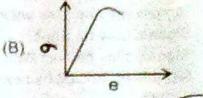
(C) a vehicle

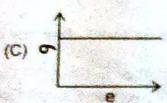
- (D) a water-proofing base
- A simply supported beam of span L and flexural rigidity El, carries a unit 7. point load at its centre. The strain energy in the beam due to bending is

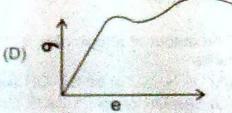
- in terms of bulk modulus (K) and modulus of rigidity (G), Poisson's ratio can be expressed as

- The stress strain curve for an ideally plastic material is (conventional 9 symbols)

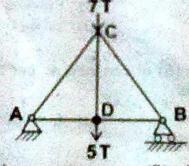








10. What is the force in the vertical member CD of the pin - jointed frame shown below?



- (A) 12T (Tension)
- (C) 7T (Compression)
- (B) 2T (Compression)
- (D) 5T (Tension)
- In a situation where torsion is dominant, which one of the following is the 11. desirable section?
  - (A) Angle Section

(B) **Channel Section** 

(C) I-Section

- (D) Box-Type Section
- Lateral ties in RCC columns are provided to resist 12.
  - (A) Bending moment
  - (B) Shear
  - (C) Buckling of longitudinal steel base
  - Both Bending moment and Shear

in a Cantilever beam carrying gravity load, main reinforcement to resid 13. Bending moment is provided

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

In fluid flow, the line of constant piezometric head passes through two 14 points which have the same

(A) Elevation

(B) Pressure

(C) Velocity

(D) Velocity potential

15. 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

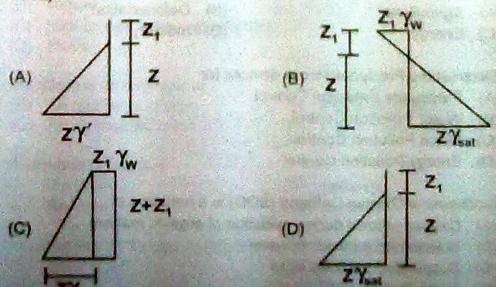
(D) 310 m

16. 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

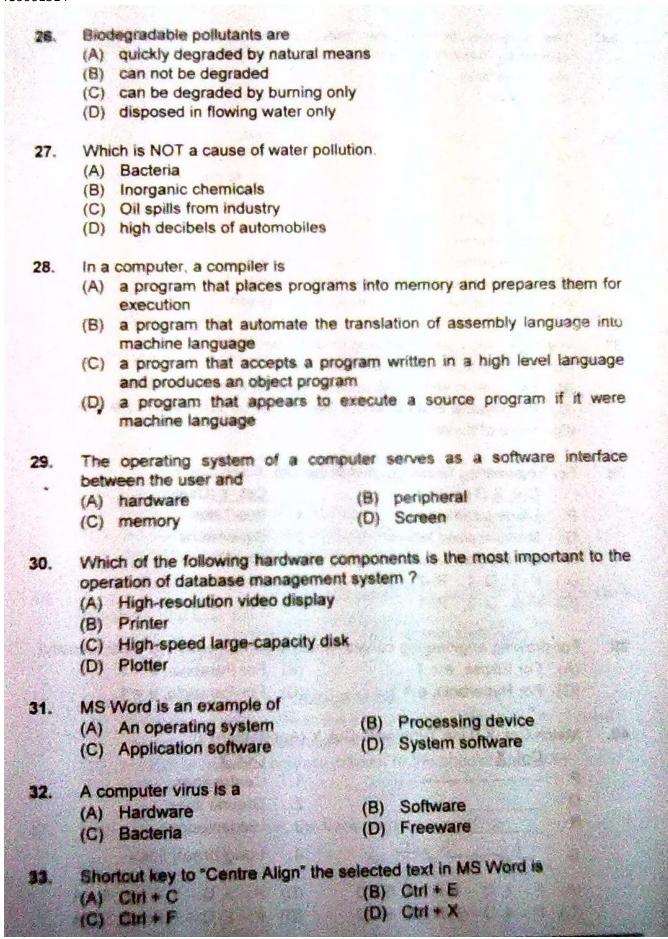
17. Which one of the following diagrams represents the effective pressure distribution for a saturated soil mass of depth 'Z' submerged under water of height 'Z<sub>1</sub>'above its top level.

(Yest = sat. density of soil, Yw = unit wt. of water, Y' = submerged density of soil)



http://ajourneywithtime.weebly.com/

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		mination is measured using w	hich one	of the following
18.	illes	mination is measured using w	(B)	Stroboscope
	(A)	Millivoltmeter	(D)	pH meter
	(C)	Lux meter		
19.	Δit	ernating Current can be meas	ured by	to shirt the south short the said
No.	(A)	Maying iron repulsion type	Animiere	support and product at the
	(B)	Permanent Magnet type Ar	nmeter	mankers A Chillian
	(C)	Electronic Voltmeter		The state of the s
	(D)	Induction Ammeter		
20.	Wh	eatstone bridge is used to me	easure	
	(A)	Low values of current and	high value	es of current
	(B)	High values of current		ATTENDED TO THE RESERVE OF LAND
	(C)	Low values of voltage		many of 180
	(D)	Resistance values		
21.	Me	ggar is an instrument to mea	sure	priest of the telephone is
		Q of a coil	(B)	Inductance of a coil
	(C)	very low resistance	(D)	Insulation Resistance
22.	Ап	nultimeter consists of		Talking Carl
		Current and Ohm meter		Sale Supplement College
W. The	(B)	Voltmeter and Ohm meter		
	(C)	Voltmeter and Current met	ef	dunish any transiti deal N
1	the state of the s	Voltmeter, Current meter a	nd Ohm	meter
23.	Mair	or contribution activity towar	rds Globa	al Warming by Greenhouse ga
	is			
	Contract to	Agriculture	(B)	Deforestation
		Energy	(D)	
		Configuration (Configuration)		
24.	Elec	trostatic Precipitators are di		
	(A)	Particulate Emission Contr	'ol	
	(B)	Water Pollution Control		
	(C)	Noise Pollution Control		有些的人。
	(D)	Energy Pollution Control		
25.	Bioci	hemical Oxygen Demand (I	BOD) is	a measure of
	(A)	Oxygen utilized during oxid	dation of	Organic matters
	(B)	Suspended particles in wa	tor	organic matters
		Suspended particles in air		
	THE RESERVE AND ADDRESS OF THE PARTY OF THE	Noise level in air		
	100	THOSE BY CHILL BIT		



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34.	The software in computer	that transl	lers the object program from
W	secondary memory to the main	(R)	Loader
	(A) Assembler	7	Task builder
Dr. Y	(C) Linker	(0)	THON DUTINE
35.	In a security the system ideal	ifies a file i	by its
35.	In a computer, the system ident (A) Name	/RI	Absolute Path
	(A) Name (C) File owner	(D)	Inode number
	(C) File Owner	(6)	et your endergrown
36.	In a computer, Virtual Memory i	•	<b>加利用公共</b> 基本。
	(A) an extremely large main m		Metric as 2,200 fts
	(B) an extremely large second		~
	(C) an illusion of an extremely		
	(D) a type of memory used in		
	Control of the second	Juper Sonn	Juliero
37.	In a computer, Disk scheduling	involves de	eciding
1000	(A) which disk should be accer-		The state of the s
	(B) the order in which disk acc		sts must be serviced
	(C) the physical location where	files shou	ild be accessed in the disk
100	(D) None of these		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Service of the servic			
38.	For Engineering Drawings, mate	ch the Col	X and Col. Y
	Col. X (Type)		Col. Y (Use)
4.6	P. Large sized letters	1.	Sub-Titles
	Q. Medium sized letters	2	Dimensions
	R. Small sized letters		Main Titles
	(A) P-3, Q-1, R-2		P-2, Q-1, R-3
	(C) P-3, Q-2, R-1		P-2, Q-3, R-1
		(6)	
39.	For drawing engineering curves	which in	
	(A) For Ellipse, e > 1	AND THE THE PERSON PRODUCTIONS BY THE PERSON IN	
Sec.	(C) For Hyperbola, e = 1		For Parabola, e < 1
	(C) Tol Hyperbola, e = 1	(D)	For Parabola, e = 1
40.	Match Col V (Line Town)		
	Match Col. X (Line Type) with C	ol. Y (App	
	<u>Col. X</u>		Col. Y
		1.	Centre lines
AND	Q	2.	Ground lines
		3.	Hidden edges
	s A	4	Long break lines
	Man To Carlot		
5 2	(A) P-2.Q-1.R-4.S-3	(8)	P-3.0-1.R-2.8-4
	(C) P-4.Q-3.R-1.S-2		P-20-18-38-4
The last of the la		Constitution of the N	

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
- (D) In Isometric projection, an isometric scale is used

Select the correct option.

The isometric projection of a circle is

(A) Ellipse

(B) Parabola

(C) Hyperbola

(D) Circle

43. Light Year is the unit of

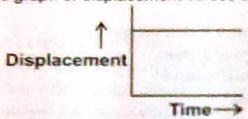
(A) time

(B) distance

(C) speed of light

(D) intensity of light

44. In the graph of displacement versus time shown below, which is correct.



- (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

A man is standing on a boat in still water. If he walks in the boat towards 45. the shore, the boat will

- (A) move away from the shore
- (B) remain stationary
- (C) move towards the shore
- (D) Sink

Relative Humidity is the percentage of the 46.

- (A) absolute humidity value to the amount of humidity actually present
- (B) increase of humidity/absolute humidity
- amount of humidity actually present to the absolute humidity (C)
- None of these (D)

With conventional symbols, the Lens formula is given by

$$(A) \ \frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

(B) 
$$\frac{1}{y} - \frac{1}{y} = \frac{1}{f}$$

(c) 
$$\frac{1}{v} + \frac{1}{u} = \frac{1}{t}$$

(D) 
$$u + v = f$$

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			as a simple	Secretary and the second	
48.	A	nagnifying glass compris	(B)	Convex mirror	
	(A)	Convex lens	(D)		
		Concave lens			
**	1A/A	nich of the following prope	erty is general	y NOT shown by me	tal?
49.	(A)	- A - A - A - A - A - A - A - A - A - A	(B)	Sonorous in nature	
		duliness	(D)	ductility	
			- 1 1 K		
50.	The	state in which molecula	ir attractions a	re very strong is	
		Solid	(B)		
	(C)	Gas	(D)	Vapour	
51.	Wh	ich of the following acids	is present in	sour milk ?	
	(A)	Glycolic Acid		Lactic Acid	
	(C)	Citrus Acid	(D)	Tartaric Acid	
52.	The	atomic number of an el			
	(A)	the number of electron		and the second second	
	(B)	the number of neutron	s in one atom		
	(C)				
	(D)	the number of protons	in one atom	Salah Baratan a	Service Control
		A CONTRACTOR	三年5月1年1月	Charles Andrew	
53.		nents belonging to the ause	same group	have similar chemi	cal properties
	(A)	they are all metallic ele	ements	Marie Control	
A STATE OF	(B)	they have similar elect	ronic configur	ation	WWW Jak
40	(C)	atomic number increas			
	(D)	None of these			
		1. Asia (1. 17.17)			
54.	Whi	ch of the following alloys	s contains Tin	7	
	(A)	Brass	(B)		
	(C)	Duralumin	(D)		
		<b>一类的</b> 类。			
55.	In hi	imans, bile juice is secr	eted by	The Arthurson	4.16.19.14
	(A)	pancreas	(B)	small intestine	<b>第一三人</b> 数
	(C)	esophagus	(D)	liver	
	White	h of the following is co	nected with	reneral of	
	(A)	Phloem			i piarita y
	(C)	Epidermis		Xylem	
PHASE A BULLON	100			Cambium	

-	Manh	rons are connected with				
57.	-	Respiratory System	(B)	Ne	ervous System	
		Circulatory System	(D)	Ex	cretory System	
58.	Sight	of delicious food usually ma	kes mo	ith	watery, it is a	
30.		Hormonal response	(B)	N	eural response	
	4	Optic response	(D)	0	ifactory response	
59.	Jaun	dice is a disease of				
	(A)	Kidney	(B)		ancreas	
		Liver	(D)		ouodenum	
60.	Defic	ciency of Vitamin C causes				
	(A)	77-9 T 977	(B)		periberi	
	(C)	scurvy	(D	) . 1	night blindness	
61.	The	Radcliffe Commission was	appointe	ed t	0	
	(A)	Solve the problem of minor	mines on	no		
	(B)	Give effect to the Independ	tence 6		- d Dekistan	
	(C)	Delimit the boundaries bet	ween In	dia	and Paristan	
	(D)	Enquire into the riots in Ea				
62.	The	Governor General of India	at the t	me	of foundation of Indian Nat	ional
		gress was ?	and the same	20	Lord Dalhousie	
		Lord Chelmsford			Lord Canning	
		Lord Duller III				
63.	Wh	o was the & tvocate at the f	amous	ria	is of three INA Soldiers ?	
TANK I	(A)	Bhulabhai Desai		B)		
	(C)	Subhash Chandra Bose		D)	C. Rajagopalachari	
64.	The	Consolidated Fund of Indi	a is a fi	ınd	in which	State
	(A)	All taxes except Income	Tax co	llec	ted by the Union as well as	
	(B)	All money received by	or on b		alf of the Government of I	
	(C)	The Union as well as St			nments make equal contribu	then le
	(5)	Savings of Union and St	ate Gov	en	iments are deposited	

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		ch part of the Indian Constitut		ects the mind and	ideals of the			
	s a Heal	ob part of the Indian Constituti	ion ren	P MALE (MALE)				
65	France	iers ?	(B)	Am F LF LF L MEE I DESTRUCTION				
		preamble	(D)	Emergency Provisi	ons			
	in	Directive Principles						
	(0)	long can a Presidential Ordina	nce re	main in force?				
66.	How	long can a Presidential Ordina	(B)	Two months				
00.	(A)	One West	(D)	Six months				
	in	Till the President revokes it						
	, .	most effective farming method	for rot	urning minerals to t	he soil is			
67.	The	most effective farming method	IUI IOI	Terracing				
	(A)	Contour ploughing		Furrowing				
	(C)	Crop rotation	(D)	Lautown-P				
				numed by	n de L			
68.	Win	ter rains in North-Western Indi	a are c	ansen of	4			
	(A)	Western Disturbances		The state of the state of	TO PORT TO THE PARTY OF THE PAR			
	(B)	South West Monsoon						
	(C)	South Easterly Disturbances	. Cont					
	(D)	Easterly Disturbances	d 7168					
					×.			
69.	Kaz	iranga National Park is in		T and Manda	A CONTRACTOR OF THE PARTY OF TH			
	(A)	Uttar Pradesh		Tamil Nadu	Service Control of the Control of th			
	(C)	Assam	(0)	Kerala	, <del>-</del>			
70	The	concept of joint sector implies	coop	eration between				
70.		Public Sector and Private Se	ector In	dustries	the sales of the			
	(A)	State Government and Cent	ral Gov	remment Enterprise	es			
	(B)	State Government and Govern	tries					
	(C) Domestic and Foreign Industries (D) Cooperation between two Government Departments							
	(U)	Cooperation between two o	O V GI I III					
71.	prov	ch of the following is an apprinting investment and produced	uction	credit for promot	the institutions ing the various			
	ENGLISH OF THE	elopmental activities in rural a						
		RBI		) NABARD				
	(C)	SIDBI	(C	) IMPEX	102 102 111			
72.	UNI	OP has aim	4 34	1-1-1	40 - 161			
	(A)	to provide technical assist development	lance	to stimulate econ	omic and socia			
	(B)	to promote International Tra	de	A STATE OF THE PARTY OF				
	(C)	to promote cooperation on I		mantal Date				
LANGE		The state of the s	- FRAME		The second second second			
	(0)	to help establish Child Heal			SHIN END THE			

61. Popular TV programme "Satyamev Jyate" is anchored by

(A) Salman Khan

(B) Akshay Kumar

(C) Amitabh Bachchan

(D) Aamir Khan

26

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9 19 1		at is common amongst Mahesh I	ab wood	hi Ivan Lendi; Roger	Federer?
82	Whi	t is common amongst Mahesh the They are all Arjun Award winner they are all Arjun Award Tennis pl	onupar	and the state of	
	(A)	They are all Arjun Award Willie	avers		
	The state of the s	THE RESERVE OF THE PERSON OF T	ayere		
1000	(C)	They are all Social Activists	al wint	ners	
No.		and a second control of	S. VER	No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Inhia Peacs
		ch of the following pairs was an	nounce	ed recently as Joint N	lobie reace
83.	Whi	ch of the following pans was			the state of the state of
474		e winner. Kailash Satyarthi and Malala		2. 小海市AMT 27	
•	(A)	Amartya Sen and Benazir	1 - E 1988	ST 19 19 19 19 19 19 19 19 19 19 19 19 19	
	(B)	Morkel and Hosni Mubarak		. The beautiful and	
	(C)	Morker and Floatin			
		Anwar Sadat and Begin			
7	LASE	is called the Father of Hindi Ti	neatre	of India ?	
84.	AATH	Raja Harish Chandra			
		The state of the s	(D)	Prithvi Raj Kapoor	
	(C)		200		
85.	8.8-1	ch Col. A (Dance type) and Co	B (St	ate).	-
00.	indian	Col. A	THE STATE OF	COI. D	
	P	Bihu	1.	Gujarat	
	Q.	Garba	2	UP	
	R	Tamasha	3	Assam	
	S	Nautanki	4.	Maharashtra	
-1 60	7,76		(B)	P-3, Q-1, R-4, S-2	A. W. C.
	(A)	P-4, Q-1, R-2, S-3	(D)	P-1, Q-4, R-2, S-3	
		P-3, Q-1, R-2, S-4		A STATE OF THE STA	
		at is the largest possible length	ofas	icale that can be use	ed to measure
86.	VVIN	ctly the lengths 3 m. 5 m 10 cm	and 1	12 m 90 cm ?	400
			(B)	20 cm	
		10 cm	(D)		
	(C)	25 cm			
		tudent was asked to find an	ewet	by dividing a numb	per by 3. But,
87.	A S	ead of dividing it, he multiplie	od it h	3 and not 29.7	What was the
	inst	ead of dividing it, he muluplik	30 11 0	7 2 414 94	
		ect answer?	(0)	0.0	
		3.3	AND MARKET THE PARTY OF THE PAR	9.3	
	(C)	9.8	(0)	2 9.9	
88.	Afte	r measuring 120 metres of a r	ope, it	was discovered the	at the metre rou
0.03	was	3 cm longer. The true length	of the	rope measured is :	
		116 m 40 cm	(8	) 121 m 20 cm	MINNEY YEAR
A TOTAL	33 (S) (C) (C) (C)	123 m	(D	) 123 m 60 cm	
89.	Ab	ag contains three types of co	ins i.e	e, one rupee coins,	50 paisa coins
	and	25 paisa coins totalling 175	coins	. If the total value	of the coins of
	A 100 MARCH 1875	h kind be the same, the total a	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME		
<b>对关于</b>		176	STATE OF THE PARTY	(1) (126	
	Service Control	£175	ACCOUNT OF THE PARTY OF	7300	

90.	II X	= Y+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	en Z =	?					
		1				4			
	(A)	$4(X^2-Y)$	2)		(B)	$\frac{4}{\sqrt{X^2 - Y^2}}$ $\frac{4}{(X - Y)^2}$			
	(C)	$4(X-Y)^2$			(D)	4			
	(0)	1/11 1)			(D)	$(X-Y)^2$			
91.	Cal	ve $\sqrt[3]{0.00}$	0064						
91.		0.4	0004	= 7	(0)	0.04			
		0.004			(D)	0.004			
92.	The	average a	ge of	5 membe	rs of a co	ommittee is	the sa	me as	it was
	3 y	ears ago,	becaus	e an old	member	has been	replac	ed by	a new
	mei	mber. The d	ifference	e betwee	n the age	s of old and	new m	ember	is
		12 years				4 years			
	(0)	8 years			(U)	15 years			
93.		product of	The second second		ibers is 25	500. If one i	s four ti	mes the	e other,
		the sum of		The second second			-		
	(A)	25	(B)	125	(C)	225	(D)	250	
94.	A is	2 years old	ier than	B who is	s twice as	old as C.	f the to	tal of th	ne ages
		, B, C be 27							
		9 years			14270	8 years			
	(C)	10 years			(D)	11 years	e Cape		
95.	A bi	ucket conta	ins 2 lit	tes more	water wt	nen it is fille	d 80%	in com	parison
		n it is filled	2	Miles In II	a casaci	tu of the buy	ckat 2		
							CKEL		
920	10000000000000000000000000000000000000	10 litres	20	OF THE REAL PROPERTY.	(8)	15 litres		Man.	
Mar	(C)	66 <sup>2</sup> litres	(See A.)		(D)	20 litres			
		3							
96.	A de	aler profesi	sing to	sell his g	oods at c	ost price, u	ses 900	gm w	eight for
	1 Kg	. His gain p	ercent				EMPT (		
160 (87	(A)	9%	(B)	10%	(C)	11%	(D)	11-%	
War in	.,							9	
				4			At St.		e trip
97.	The	selling price	of a ta	able is - t	imes its c	ost price. T	he gain	perce	nt is
		1_		1		1		700	22-0
	(A)	20 3 %	(B)	20-%	(C)	25-10		(D)	3
98.	MA	exceeds B b				C by 20%.	then A	(D)	20.00
	(A)		(8)	26	(C)	26.25		1-1	

X. Y. Z started a business by investing ₹27000, ₹81000 and ₹72000 respectively. At the end of one year, Y's share of total profit was \$36000 (B) ₹116000

(A) ₹108000

(C) ₹80000

(D) ₹92000

To complete a work, P takes 50% more time than Q. If together they take 18 days to complete the work, how much time shall Q take to do it ? 100.

(A) 30 days

(B) 35 days

(C) 40 days

(D) 45 days

Two pipes can fill a tank in 20 minutes and 30 minutes respectively. If both the pipes are opened simultaneously, then the tank will be filled in

(A) 10 minutes

(B) 12 minutes

(C) 15 minutes

(D) 25 minutes

102. A man completes 30 km of a journey at 6 km/hr and the remaining 40 km of the journey in 5 hours. His average speed for the whole journey is :

(A) 6 11 km/hr

(B) 7 km/hr

- (C)  $7\frac{1}{2}$  km/hr (D) 8 km/hr

103. A train with a speed of 60 kmph crosses a pole in 30 seconds. The length of the train is

(A) 500 m

(B) 750 m

- (C) 900 m
- (D) 1000 m

Simple Interest on ₹500 for 4 years at 6.25% per annum is equal to the Simple Interest on ₹400 at 5% per annum for a certain period of time. The period of time is

(A) 4 years

(C) 6 - years

A sum becomes ₹2916 in 2 years at 8% per annum compound interest. 105. The sum is

(A) ₹2750

(B) ₹2500

(C) ₹2625

(D) ₹2560

A circle and a rectangle have the same perimeter. The sides of the 106 rectangle are 18 cm and 26 cm. What is the area of the circle?

(A) 88 cm<sup>2</sup>

(B) 154 cm<sup>2</sup>

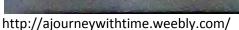
(C) 618 cm<sup>2</sup>

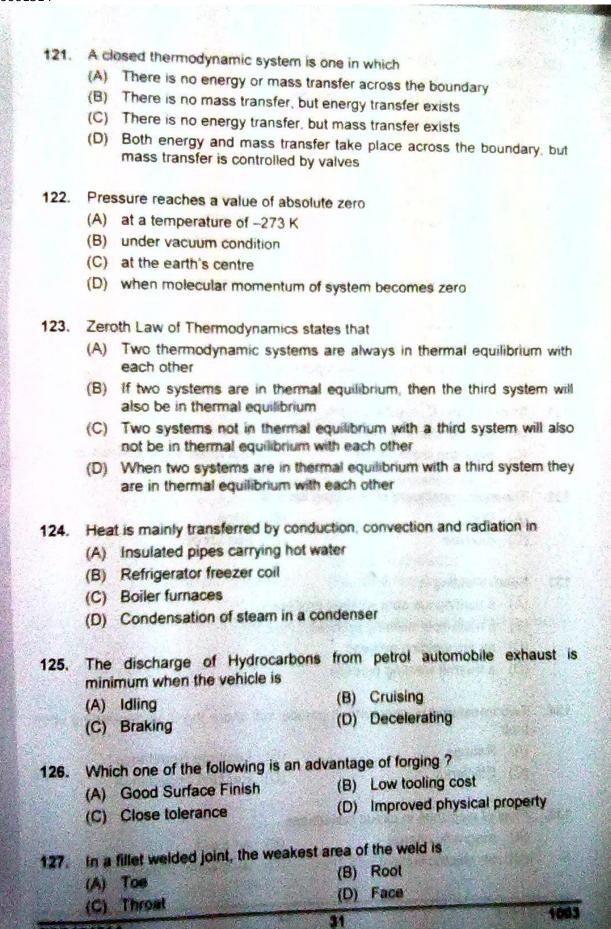
(D) 1250 cm<sup>3</sup>

STATE OF	(C)	Quintal			
	(A)	Gallon	io		
115.	Sel	ect the odd word option.	/9	) Ton	1971
	(C)	Library			
	(A)	Rack	(D	CONTRACTOR OF THE PARTY OF THE	
114.		nu Food : : Catalogue : 7	(B	Newspaper	
	(C)	Editor : Newspaper	(D	Sailor Ship	
	(A)	Shoes : Leather		Shirt Trousers	
13.	Pris	m Glass : 2		Ohld Tourses	
	ana	logous option for given w	ords.		
	Dire	ections: (Question No.	113 and	Question No. 114).	delect III
	Start I			Overtion No. 114)	Select th
	(C)	bacab	(10)	bcaca	
15		aabca	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		
2007		c_ac_aabb_ab_cc	(8)	abaca abaca	bush a second
	The second second second		HER CHANGE	A Richard Control and the	Marie 151
	that	order in options. Select ti	he correct o	ption,	
112.	in n	iven letter series, some	of the letter	s are missing which	are given in
		LVR	TO THE RESERVE OF THE PARTY OF		
		LUP	(0)	LWP	Marie Control
		T, OOS, NOR, MSQ. 2	/DY	LVP	
		tinue the series		Sales and the sales	
111.	GIVI	en below is a series of a	pracets. C	increase dis obtion to the	
47.1	~		Inhahata C	hoose the option to o	enlace ? to
	(C)	94	(D)	122	
	(A)			86	athing one
150	and the same of the same of	, 10, 22, 46, ?	(8)	00	16.00
		tinue the pattern in series.			Park State
110.		given number series, s		puon wnich shall re	
	_		alast the	ention which chall en	nlace 2 to
	1-1	√2	1-7	√3	
	(C)	$\frac{50}{\sqrt{2}}$ m	(D)	m m	
			(0)	50	
		50√2 m		50√3 m	
		g inclined at 60° to the ho			
109.	Aki	te is flying at a height of	75 m from	the level ground, att:	ached to a
	(C)	60°	(D)	90	
		30°	(B) (D)	45	
108.		angle is its own complem	450		
		2156 cm <sup>3</sup>	(D)	2496 cm <sup>3</sup>	
		3234 cm <sup>3</sup>	(B)	1078 cm <sup>3</sup>	
	ILS V	olume is	THE PART OF THE PA	the second second second	
	Dan and				

http://ajourneywithtime.weebly.com/ 2015 TS0001314 A, B, C, D and E are five friends. A is shorter than B but taller than E. C is tallest. D is shorter than B and taller than A. Who has two persons taller and two persons shorter than him/her? (D) D (A) A (C) E You go North, turn right, then right again and then go to the left. In which 117. direction are you now? (B) South (A) North (D) West (C) East Directions: (Question No. 118 & Question No. 119): Choose the option Diagram for given set of words. (D) Machine, Lathe, Mathematics 118. Mercury, Mars, Planets 119 Select the option which continues the pattern in given problem figures. 120. Problem Figures **Answer Figures** (A) (B)

(D)

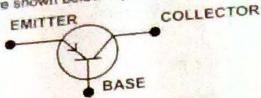




TS0001314	1									
136.	Builbs in street lighting are all connected in									
	(A)	parallel		series						
	(C)	series parallel	(D)	end of end						
137.	The	e electric field strength of a cha	rge							
	(A)	increases with distance								
		decreases with cube of dista	nce							
		decreases with distance								
	(D)	decreases with square of dis	tance							
138.	Wh	ich of the following is the unit of	of magn	etic flux.						
	(A)	tesla	(B)	coulomb						
	(C)	weber	(D)	ampere-turn						
139.	The	bustarania lasa in a airea ma								
133.	10 COMPANY DE	hysteresis loss in a given ma	gnetic n	naterial may be decre	eased by					
•	(A)	laminating it								
	(B)	increasing flux density through	To the second second							
		increasing frequency of reve								
	(D)	decreasing maximum flux de	menty es	stablished through it						
140.	Vac	uum is considered as								
	(A)	Non-magnetic material	(B)	Diamagnetic mater	ial					
	(C)	Paramagnetic material	(D)	Ferromagnetic mat	erial					
141.	Bak	elite is a/an								
	(A)	insulator	(B)	semiconductor						
	(C)	high resistance conductor		Low resistance cor	nductor					
142.	Los	ses which do not occur in tra	nsform	er but do occur in ro	tatino electric					
	Losses which do not occur in transformer but do occur in rotating electric machine are									
	(A)	Copper losses			A PART OF THE RESERVE OF THE PART OF THE P					
	(B)	Magnetic losses								
	THE PERSON NAMED IN	Friction and windage losses								
	O'LL TO SELECT	Hysteresis and eddy current								
	1- 5	eming's Right Hand rule, the	thumb	points towards						
143.	The state of		With the	politica tottana						
A SOL	(A)	direction of flux								
	(B)	direction of induced e.m.f.			no the lines of					
	(C)	direction of motion of condu								
	(D)	direction of motion of the	condu	uctor if fore finger	points in the					

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Figure shown below represents a 144.



- (A) A power diode
- (C) NPN Transistor

- (B) Zener Diode
- (D) PNP Transistor
- 145. 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
- 146. 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
- 147. 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
- 148. Potentiometer is basically a
  - (A) Measuring instrument
- Integrating instrument (B)
- (C) Calibrating instrument
- Indicating instrument (D)
- 149. 'An element whose atoms have three valance electrons, the example of such element is
  - (A) Silicon

(B) Copper

(C) Germanium

- (D) Aluminium
- 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
  - it can be used only with NOT gate universally

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