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Maximum : 100 marks

Time : 1 hour and 15 minutes

1.	0.01×0.0	1 =		
	(A)	0.001	(B)	0.0001
	(C)	0.1	(D)	0.0101
2.	32°F =			
	(A)	32°C	(B)	100°C
	(C)	-32°C	(D)	0°C
3.	0.5 kg =			
	(A)	5 grams	(B)	50 grams
	(C)	500 grams	(D)	5000 grams
4.	When me	asurements are required in three un	its —	scale is used.
	(A)	diagonal	(B)	plain
	(C)	comparative	. (D)	none of these
5.	735.5 wat	ts =		
	(A)	550 kg metre/second	(B)	750 kg metre/second
	(C)	. 75 kg metre/second	(D)	7.5 kg metre/second
6.	200 cm =			
	(A)	0.2 metre	(B)	0.02 metre
	(C)	0.002 metre	(D) [·]	2 metre
7.	Unit for s	tress in S.I. system is :		
	(A)	kg/cm ²	(B)	gm/mm ²
	(C)	Newton/m ²	(D)	Newton/cm ²
8.	1 kWh is	equal to :		
	(A)	4.2 mega joules	(B)	33000 joules
	(C)	0.42 kilo joules	(D)	3.6 mega joules
A		3		

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9.	T.coupre i	is used for drawing —			
0.	(A)	vertical	(B)	curved	
	(C)	horizontal	(D)		
	(~)				
10.	25.4 cm is	equal to :			
	(A)	10 inches	(B)	0.01 inch	
*	(C)	1 inch	(D)	2.54 inches	
11.	1 ton =				
	(A)	100 kg	(B)		
	(C)	1000 kg	(D)	980 kg	
12.	LCM of	3,4 and 5 is :			
1	(A)	3	(B)	4	
	(C)	5	(D)		
		The second second	1989		
13.	The angle	which is more than 18	0° and less than 360	° is called :	
	. (A)	Reflex angle	(B)	Acute angle	
	(C)	Straight angle	(D)) Obtuse angle	
14.		re is equal to :	(D)	0.633 mile ·	
	(A)	0.622 mile	(B) (D)		
	(C)	0.602 mile	(D)) 0.000 mile	
15.			g-off short equal dist	tance.	
	(A)	Compass	(B)		
	(C)	Scale	(D)) None of these	
16.	$2\frac{1}{2} \times 3\frac{1}{2}$ i	s equal to :			
14			(D)		
	(A)	0.5	(B)		
	(C)	8.75	(D)) 35	
17.		mula is used to calcula lth of the rectangle?	te the diagonal of a	rectangle when ' l' and ' b ' are the lenge	th
-	(A)	$d = \sqrt{l^2 + b^2}$	(B)	$\sqrt{l^2-b^2}$	
		$d = \sqrt{lb}$	(D)	$ \sqrt{l^2 - b^2} $ $ \sqrt{l^2 \cdot b^2} $	
	(0)	u - 410	(D)		
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18.	To remove	unnecessary lines ———	——— is used.	
	(A)	duster	(B)	chalk
	(C)	sand paper	(D)	eraser
19.	As far as J	oossible dimensions should	l be given in one u	nit, preferably in :
	(A)	centimetres	(B)	metres
	(C)	inches	· (D)	millimetres
20.	1 gallon e	quals to :		
	(A)	4.1 litres	(B)	4.24 litres
	(C)	4.50 litres	(D)	4.54 litres
21.	State which	ch of the following are in p	roportion :	
	(A)	6:8::5:15	(B)	3:7.5::2:7
	(C)	10:21::4:8.4	(D)	7:10::14:18
22.	In which o	quadrant the units 3, -7 w	ill be plotted?	
	(A)	I quadrant	(B)	II quadrant
	(C)	III quadrant	(D)	IV quadrant
23.	The value	of $\sin^2 30 + \cos^2 30$ equals	a to :	
	(A)	0	(B)	1
	(C)	0.5	(D)	1800
24.	Which one	e is the improper fraction?		
		2		9
	(A)		(B)	5
	(C)	2/3	(D)	55
	(6)	4		6
25.	Which on	e refers to temperature?		
	(A)	It is a form of energy	(B)	It tells the state of heat
	(C)	Unit is calorie	(D)	It is measured by calorimeter
		3		
26.		e of $4^{\overline{2}}$ is :	(D)	c .
	(A)	2	(B)	6
	(C)	8	(D)	4096
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27.	Drawings	of buildings are drawn using :		
	(A)	full-size scale	(B)	reduced scale
	(C)	scale of chords	(D)	enlarged scale
28.	If $\cos\theta = \frac{1}{2}$	$\frac{4}{5}$, $\sin\theta =$		
	(A)	$\frac{3}{5}$	(B)	45
	(C)	$\frac{5}{4}$.	(D)	√3
29.	The H.C.H	F. of 66 and 330 is :		
	· (A)	66	(B)	330
	(C)	24	(D)	3
30.	Lateral su	urface area of a cone is :		
	(A)	πrl	(B)	$\frac{1}{3}\pi rl$
	(C)	$\frac{1}{4}\pi r^2 h$	(D)	$\frac{1}{3}\pi rl$ $\frac{1}{3}\pi r^2h$
31.	$\operatorname{Log}\left(\frac{a}{b}\right) =$	R		and a second provide the second set 1. 199
	(A)	Log a + Log b	(B)	$\log a - \log b$
	(C)	Log(a+b)	(D)	Log ab
32.	The bigge	r fraction is :		
	(A)	$\frac{5}{6}$	(B)	$\frac{5}{12}$
	(C)	57	(D)	$\frac{5}{18}$
33.	What is th	ne volume 'V ' (in cm^3) of the container	which	n can hold 6.28 litres of water at 4°C?
	(A)	$V = 6.28 \text{ cm}^3$	(B)	$V = 62.8 \text{ cm}^3$
	(C)	$V = 628 \text{ cm}^3$. (D)	$V = 6280 \text{ cm}^3$

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34.	The value	of $\tan 45" + \cot 45" =$			
	(A)	$\sqrt{3}$	(B)	$\frac{1}{2}$	-
	(C)	2	(D)	2√2	
35.	Kinetic en	ergy K.E. =			
	(A)	mV^2	(B)	$\frac{1}{2}mV^2$	
	(C)	mV	(D)	mgh	
36.	Decimal o	f 62% is :			
	(A)	0.31	(B)	1.62	
	(C)	0.62	(D)	2.62	
37.	A body tra	avels a distance of 20 m	etres in 10 seconds. V	What is its speed?	
	(A)	1 metre/second	(B)	2 metres/second	
	(C)	3 metres/second	(D)	200 metres/second	
38.	Perimeter	of the rectangle with l	ength ' l ' and breadth	'b' is :	
	(A)	3(<i>l</i> + <i>b</i>)	(B)	4(l+b)	
	(C)	2(<i>l</i> + <i>b</i>)	. (D)	216	
39.	The sum	of interior angles of a p	entagon is :		
	(A)	500°	(B)	600°	
	(C)	540°	(D)	450°	
40.	Which nu	mber is exactly divisibl	e by 3?		
	(A)	10	(B)	22	
	(C)	95	(D)	72	
41.	The value	of 6 + 3 + 2 is :			
	(A)	1	(B)	2	
	(C)	3	(D)	4	
42.	The unit	of work is :			
	(A)	kg/cm ²	(B)	Newton	
	(C)	kg/cm	(D)	kg-cm	
A			• 7		34/2 [P.

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- 43. Pythagoras theorem applies to :
 - (A) Square
 - (C) Equilateral triangle
- 44. According to Newton :
 - (A) Force = Mass × Acceleration
 - (C) Force = Velocity × Time
- 45. If a number is multiple of 2 is called :
 - (A) Odd number
 - Even number (C)
- 46. Density has relation between :
 - (A) mass and volume
 - (C) temperature and pressure
- 47. Proper fraction is :
 - (A) less than 1
 - (C) more than 1
- The formula used for solving quadratic equation is : 48.

A)
$$x = \frac{b \pm \sqrt{b^2 - 4ac}}{2a}$$

(B) $x = -b \pm \sqrt{\frac{b^2 - 4ac}{2a}}$
(C) $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
(D) $x = -b \pm \frac{\sqrt{b^2 - 4ac}}{2a}$

Force 49.

Area

- (A) Elasticity
- Stress (C)

50. In a motor, electric energy is transformed into :

- (A) Light energy
- Vibrational energy (C)

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- (B) Right angled triangle
- (D) Isosceles triangle.
- Force = Mass × Velocity (B)
- (D) Force = Mass × Speed
- Mixed number (B)
- (D) Prime number
- (B) volume and temperature
- (D) mass and velocity
- equal to 1
- ac ıc
- (B) Load
- (D) Strain
- (B) Sound energy
- (D) Mechanical energy

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- (D) zero

- (B)

51.	Centigrad	le and Fahrenheit scale read	ling remains san	ne at
	(A)	+40°	(B)	0°
	(C)	+32°	(D)	-40°
52.	The factor	r of safety for any design wo	rk should be :	
	(A)	more than 1	(B)	equal to 1
	(C)	less than 1	(D)	zero
53.	In a plane	e, the maximum angle aroun	d a point is :	
	(A)	π radian	(B)	2π radian
	(C)	3π radian	(D)	$\frac{\pi}{2}$ radian
54.	Electrical	power is measured in :		
	(A)	Kilowatt hour	(B)	Watt
	. (C)	Newton	(D)	Newton-metre
55.	In first ar	gle projection method, the p	lan drawn at :	
	(A)	above the elevation	(B)	right side of elevation
	(C)	below the elevation	(D)	left side of elevation
56.	The rate of	of change of velocity is :		
	(A)	Momentum	(B)	Speed
	(C)	Acceleration	(D)	Inertia
57.	Which is t	the odd one of the following?		
	(A)	Vernier scale	(B)	Scale of chords
	(C)	Plain scale	(D)	Diagonal scale
58.	$\frac{1}{2} + \frac{1}{2} - \frac{1}{2}$	$\times \frac{1}{2} =$		
	(A)	0	(B)	$\frac{1}{2}$
	(C)	1	(D)	$\frac{3}{4}$
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59. Density is :

(A)
$$\frac{Mass}{Volume}$$

(C) $\frac{Weight}{Volume}$

- (B) <u>Volume</u> Mass
- (D) Mass × Volume

 $a^2 + b^2 + 2ab$

 $a^{2} + 2ab - b^{2}$

60.
$$(a+b)(a+b) =$$

(A) $a^2 - b^2$
(C) $a^2 - 2ab + b^2$

61.
$$2^{0-2} =$$

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

62. The symbol for Third Angle projection is :



63. The product of two even numbers will be an

- (A) Odd number
- (C) Prime number
- 64. Stress is the ratio of :

(A)
$$\frac{\text{Load}}{\Lambda rad}$$

65. Which one of the following is a vector quantity?

- (A) Speed
- (C) Force

(B)

(D)

(D)

- ----- number.
- (B) Even number
- (D) Proper fraction
- (B) $\frac{\text{Area}}{\text{Load}}$
- (D) Increase in Length Original Length
- (B) Mass
- (D) Specific gravity



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	16				
66.	$\sqrt{\frac{16}{4}} = -$		and the second		
	(A)	8	(B)	2	
	(C)	4	(D)	1	
67.	The densi is :	ty of iron is 7.85 time	s the density of water	at 4°C. Then the s	pecific gravity of iron
	(A)	7.85	(B)	7.85 gm/cm^3	
	(C)	981	(D)	981 gm/cm ³	
	(0)	301	(D)	561 gm/cm	
68.	(100 - 1)(1	00+1) =			
	(A)	10099	(B)	9999	-
	(C)	9901	(D)	9900	
69.		etric drawing of a circl			
	(A)	Circle itself	(B)	Hyperbola	
#1 1 L	(C)	Parabola	. (D)	Ellipse	
70.	The surfa	ce area of a sphere is	$36 \pi \mathrm{cm}^2$, then the volu	ume of the sphere i	s :
	(A)	$12\pi \text{ cm}^3$	(B)	$18\pi \text{ cm}^3$	
	(C)	$72\pi \mathrm{cm}^3$	(D)	$36 \pi \mathrm{cm}^3$	
1		12 A CHI	(0)	30 x CIII	*
71.	The mass	of 1 litre of water at 4	P°C is :		1
	(A)	10 gram	· (B)	100 gram	
	(C)	1000 gram	(D)	500 gram	
_					
72.	(4)		eable of all metals.	0	
	(A) (C)	Platinum Silver	(B) (D)	Copper Gold	
	(0)	Univer	(D)	Gold	
73.	Heat is pr	oduced by :			
	(A)	Temperature	(B)	Energy	
	(C)	Momentum	(D)	Friction	
74.	Which one	of the following is an	example for Third Or	der Lever?	
	(A)		(B)	Nut cracker	
	(C)	Scissors	(D)	Fore arm	
					0.0000
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75.	1 micron	is :		
	(A)	1 mm	(B)	0.001 mm
	(C)	0.01 mm	(D)	0.1 mm
76.		roduced by :		
	(A)	Temperature	(B)	Energy
	(C)	Momentum	, (D)	Friction
77.	The inclu	ded angle between any two side	s of an equil:	ateral triangle is :
	(A)	90°	(B)	60°
	(C)	45°	(D)	30°
78.	Mass is d	efined as the quantity of :		
	(A)	Atoms	(B)	Molecules
	(C)	Matter	(D)	Electrons
70	The molti	na point of ion in :		
79.	(A)	ng point of ice is : 0°C	(B)	100°C
	(A) (C)	4°C	(D)	1°C
	. (0)		1 1-1	
80.	Output			
00.	Input			
	(A)	Torque	(B)	Work
	(C)	Efficiency	(D)	None of these
. 81.	Kho Khy	her Pass aviet in the North Wes	tern ranges	of the Himalayas connects the following
01.	places :	bet 1 dos exist in the rorth wet	stern ranges	or the minimum up connected the total many
	(A)	India and Afghanistan	(B)	Peshawar with Kabul
	(C)	India with Kabul	(D)	Manipur with Chindwin
				file beföre som itter of Indian
82.	Who amo Constitut		s the Chairn	nan of the drafting committee of Indian
	(A)	Dr. Rajendra Prasad	(B)	Dr. B.N. Ravi
	(C)	Dr. Sachidananda Sinha	(D)	Dr. B.R. Ambedkar
				•
83.	The Plan	ning Commission of India was a	and the second	
	(A)	1950	(B)	
	(C)	1948	(D)	1964
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	+			

84. Who among the following founded The Servants of Indian Society?			lian Society?	
	(A)	Gopalakrishna Gokhale	(B)	Balagangadhar Tilak
	(C)	Annie Beasant	(D)	Vinobha bhave
85.		as the first rocket launched from t iber 1963?	he Vikra	am Sarabhai Space Centre, Tumba on
	(A)	RH 100	(B)	Arkas
	(C)	Appache	(D)	Judi Arc
86.	Who amo	ng the following cricketer scored six	sixes in	an over in the first class cricket?
	(A)	Javed Miyandad	(B)	Michael Hobbes
	(C)	Garry Sobers	(D)	Alen Border
87.	Which of Assam?	the following rivers rises in the eas	tern bas	se of the Kailas mountain and flows in
	(A)	Ganges	(B)	Narmada
	(C)	Cauvery	(D)	Brahmaputhra
88.	The Prog	ressive Party leader elected as the pr	esident	of the Maldives on 17th Nov. 2013 :
	(A)	Abdul Gayoob	(B)	Abdulla Êmin
	(C)	Abdul Nasheed	(D)	Navas Sherif
89.	Who amo	ng the following was born in 14 th Nov	. 1889?	
	(A)	Mohandas Karamchand Gandhi	(B)	Lala Lajpat Rai
	(C)	Jawaharlal Nehru	(D)	Bala Gangadhar Tilak
90.	The India	n Scientist who received Bharat Rat	na with	Sachin Tendulkar in Nov. 2013 :
	(A)	Prof. C.N.R. Rao	(B)	Bhimsen Joshi
	(C)	Lata Mangeshkar	(D)	Ustad Bismillah Khan
91.	Who amo	ng the following wrote the famous M	alayalar	n novel "Ninamaninha Kalpadukal"?
	· (A)	Uroob P.C. Kuttikrishnan	(B)	M.T. Vasudevan Nair
	(C)	Thakazhi Sivasankara Pillai	(D)	Parappuram K.E. Mathai
92.		l reformer of Kerala who started the ness against feudal autocracy in the		"Swadeshabhimani" in 1905 to create
	(A)	Sree Narayana Guru	(B)	Vakkam Abdul Khader Moulavi
	(C)	V.T. Bhattathiripad	(D)	Ayyankali
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93.	The exter	nal affairs minister of India who	addressed t	he UN Assembly in Hindi in 1977 :
	(A)	Charan Singh	(B)	. Indira Gandhi
	(C)	A.B. Vajpayee	(D)	Jayaprakash Narayan
94.	The autob	oiographical work "Long Walk to	Freedom" is	written by :
	(A)	Mahatma Gandhi	(B)	Nelson Mandela
	(C)	Martin Luther King	(D)	Zulficar Ali Bhutto
95.	Who will President		a in the abs	sence of both the President and Vice
	(A)	The Chief Justice of India	(B)	The Attorney General
4	(C)	The Speaker of Lok Sabha	. (D)	The Defence Minister
96.	Which of	the following social reformer of	Kerala found	ed the Sadhu Jana Samajam?
	(A)	Mannathu Padmanabhan	(B)	Pandit Karuppan
	(C)	Vagbhatanantha	(D)	Ayyankali
97.	Which cit	ies of the following is the headq	uarters of Wo	orld Health Organisation (WHO)?
	(A)	Paris	(B)	Washington DC
	(C)	Geneva	(D)	London
98.	Which of	the following chemical is known	as "laughing	gas"?
	(A)	Nitrogen peroxide	(B)	Nitrous oxide
	(C)	Aniline	(D)	Magnesium sulphate
99.	Which an	nong the following is the organis	ation set up	in 1995 as the successor of GATT?
	(A)	UNICEF	(B)	WTO
	(C)	IAEA	(D)	FAO
100.	Which of	the following works is not writt	en by Kumar	anasan?
	(A)	Bashpanjali	(B)	Nalini
	(C)	Manimala	(D)	Pushpavadi
		· · · · · · · · · · · · · · · · · · ·		

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