	STAFF	SELECTI CGL TIER-1	upratibha.ne ON COMM MODEL PAPI	ISSION R
No.	of Questions: 100	Total M	arks: 200	Time: 1 Hr.
		GENERAL I	NTELLIGENCE	11
<b>Dire</b> from	ections (Q. 1 – 5): In a the given alternative	each of the following que	estions, select the related lo	etter / word / figure / number
1.	JLNP : OMKI : : S	UWY:?	i V	•
	1) FGHI	2) MLKJ	3) PLHD	4) XVTR
2.	Philatelist : Stamps	:: Numismatist : ?	~ 0.	
	1) Coins	2) Maps	3) Jewels	4) Samples
3.	3:11::7:?	20.5		
	1) 22	2) 29	3) 18	4) 51
4.	Coins : Mint : : Bri	cks:?		
	1) Cemetery	2) Cement	3) Foundry	4) Kiln
5.	PALE : LEAP : : P	OSH : ?		
	1) HSOP	2) POHS	3) SHOP	4) POSH
Dire	ections (Q. 6 – 9): Fin	nd the odd word / letter / n	umber from the given alter	rnatives.
6.	1) Himadri	2) Sivalik	3) Kandla	4) Himachal
7.	1) Deuce	2) Pitch	3) Crease	4) Stump
8.	1) 5788	2) 5878	3) 6482	4) 9748
9.	1) Italy	2) UK	3) Germany	4) France
10.	If BEAT is written	as YVZG, then how would	I MILD be written in the s	ame code?
	1) ONRW	2) NOWR	3) ONWR	4) NROW
11.	Find out the answe	r figure which contains que	estion figure as its part?	
	Question figure:	205		
		sugo		
	Answer figures:			
			5)	4)
12.	From the given opt to the number serie	ions, select the appropriate s given in the options.	option in which number in	n the given series is equivalent
	1) (46, 56, 66)	2) (50, 59, 71)	3) (60, 67, 72)	4) (60, 69, 82)
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13.	Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?					
	_ bba _ ba aa _	_ ab _ a				
	1) bbaabb	2) cababaa	3) aabbbb	4) babbab		
14.	If the seventh day month?	of a month is three days e	arlier than Friday, what da	y will be on the 19 <sup>th</sup> day of the		
	1) Sunday	2) Monday	3) Wednesday	4) Friday		
15.	If 10 × 2 = 4, 14 >	$4 = 5$ , then $24 \times 12$ is eq	ual to	00		
	1) 10	2) 11	3) 18	4) 6		
Dire	ections (Q.16 – 17):	In the given series, some	letter / number / digit is n	nissing. Choose the appropriate		
optic	on.		2			
16.	114, 225, 336, 447	7, 558,				
	1) 569	2) 780	3) 779	4) 669		
17.	AZ, GT, MN, ?, Y	В				
	1) JH	2) SH	3) SK	4) TS		
Dire	ections (Q. 18 – 19):	From the given options c	hoose the missing number.			
18.	3 6 8	6				
				X		
	5 8 4			0.		
<	4 7 ?			0		
	1) 6	2) 7	3) 8	4) 9		
19.	$\wedge$		1	0		
	916	436	$\langle \cdot, \rangle$	7.0		
	$\overline{3}$		5			
				4.000		
	1) 625	2) 255	3) 355	4) 925		
20.	Identify the figure	that completes the pattern	of the question figure?			
	Question figure:	0.				
	?	0,12				
<	Answer figures:					
	1)	2)	3)	4)		
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**GENERAL AWARENESS** 

26.	The minimum number of Act?	f workers who can form a	Trade Union and get it reg	gistered under Trade Union
	1) 7	2) 25	3) 100	4) 50
27.	The first Hydroelectric P	Power Plant in India was	set up at?	
	1) Nizam Sagar		2) Shivasamudram	
	3) Ramagundam		4) Mettur	0.
28.	The best Index of Econo	mic Development is prov	vided by?	
	1) Growth in Per capita	Real Income from year to	o year	
	2) Growth in National In	come at Current Prices	2	
	3) Growth in savings rat	io	0	
	4) Improvement in the B	alance of Payments Posit	tion	
29.	The atomic number of on nucleus of carbon?	carbon is 6 and its atom	ic mass is 12. How man	y protons are there in the
	1) 6	2) 12	3) 18	4) Zero
30.	KarlMarx's book 'Das Ka	apital' was published in	,	
	1) 1857	2) 1862	3) 1867	4) 1872
31.	Which of the following	gases will effuse out of fo	ootball bladder most quick	ly?
	1) He	2) H <sub>2</sub>	3) N <sub>2</sub>	4) O <sub>2</sub>
32.	Which organ of human b	body has the largest numb	per of bones?	
	1) Hands	2) Brain	3) Chest	4) None
33.	Match List-I with List-II	and select the correct an	swer using its codes given	below the Lists.
	List-I		List-II	
	a) Pulicat Lake		1. Orissa	
	b) Chilka Lake	~	2. Rajasthan	
	c) Wular Lake	~^^ <sup>2</sup>	3. Tamilnadu	
	d) Sambhar Lake	205	4. Kashmir	
	a b c d	20	a b c d	
	1) 3 1 4 2		2) 3 4 2 1	
	3) 4 1 3 2		4) 1 2 4 3	
34.	Which of the following i	motion is related with the	Union Budget?	
	1) Adjournment	2) Censure	3) Cut motion	4) None of these
35.	Simon Commission was	boycotted by the nationa	list leaders of India becau	se
	1) they felt that it was or	nly an eyewash		
	2) all the members of the	e commission were Engli	sh	
	3) the members of the co	ommission were biased ag	gainst India	
	4) it did not meet the der	mands of the Indians		_
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36.	The causative virus of A	AIDS was isolated in the y	/ear of?	
	1) 1980	2) 1981	3) 1983	4) 1986
37.	A 'breath test' used by t	raffic police to check drur	nken driving uses	
	1) Potassium dichromate-sulphuric acid			
	2) Potassium permanga	nate-sulphuric acid		
	3) Turmeric on filter pa	per		1×
	4) Silica gel coated with	n silver nitrate	$\sim$	3.
38.	Consumer's sovereignty	means	. 0	
	1) consumers determine	es what goods & services	are to be produced	
	2) consumers have the	power to manage the econ	lomy	
	3) consumer's expendite	ares influence the allocation	on of resources	
	4) consumer goods are	free from government cor	ntrol	
39.	Synthetic detergents are	e made from		
	1) Sodium stearate	20		
	2) Sodium salt of benze	ne sulphonic acid		
	3) Sodium salt of benze	ne carboxylic acid		
	4) Sodium palmitate			
40.	Match List-I with List-I	I and select the correct ar	nswer using the codes give	en below the lists
<	List-I (Symptom)	List-II (Cause)		-0-0
	a) Weak sight	1. Deficiency of Iron		Q •
	b) Anaemia	2. Deficiency of Vitam	hin C	0
	c) Skin problem	3. Deficiency of Vitam	iin A	
	d) Breaking of	4. Deficiency of bones	× >	
	a b c d		abcd	
	1) 2 4 1 3		2) 3 2 1 4	
	3) 3 1 2 4	227	4) 2 3 4 1	
41.	Who wrote the song 'Sa	re Jahan Se Accha Hindu	stan Hamara''?	
	1) Ashafaqullah Khan	~?~		
	2) Sahir Ludhianvi			
	3) Muhammad Iqbal			
42	4) Ramprasad Bismil	dded in the Docemble to t	ha Indian Canaditatian ha	
42.	The term secular was a	idded in the Preamble to t	2) 42 <sup>nd</sup> Among depart	
	1) $41^{st}$ Amendment		2) 42 <sup>th</sup> Amendment	
13	5) 45 <sup>-2</sup> Amenument	in India was got construe	4) 44 <sup>44</sup> Amenument	
43.	1) Ashaba	in mura was got construc	2) Sher Shah Suri	
	3) Akhar		4) Humavun	
		and a second		
			JI aununa.met	

44.	Full employment is a si	tuation where?		
	1) there is no involuntat	ry unemployment		
	2) there is involuntary u	inemployment		
	3) there is no voluntary	unemployment		$\sim$
	4) there is voluntary une	employment		2
45.	A fuse wire is made of			
	1) an alloy of tin and co	opper	$\sim$	0.
	2) an alloy of tin and le	ad	. 0	
	3) an alloy of tin and all	uminium		
	4) an alloy of nickel and	1 chromium		
46.	Of all micro-organisms,	the most adaptable and v	rersatile are	
	1) Viruses	2) Bacteria	3) Algae	4) Fungi
47.	What are the signals that	t inform the operating sys	stem that some activity ha	as taken place, called?
	1) Informers	2) Interrupts	3) Events	4) Handlers
48.	Which are the cities cor	nnected by "Sada-e-Sarhad	d" bus services?	
	1) Aligarh : Amritsar	*	2) Delhi : Lahore	
	3) Suchetgarh : Sialkot		4) Srinagar : Muzaffara	abad
49.	Who was the first India	n to become member of B	British Parliament?	$e^{\gamma}$
<	1) Bankim Chandra Cha	atterjee	2) W.C. Bannerjee	00
	3) Dadabhai Naoroji		4) None of the above	0.
50.	Alexander and the army	of Porus camped on the	opposite banks of which a	river?
	1) Ravi	2) Jhelum	3) Sutlej	4) Chenab
		QUANTITATIV	E APTITUDE	
51.	A and B together can deduge. If they all work to	o a work in 8 days. B and gether, the work will be c	l C together in 6 days, which we have a completed in how many d	hile C and A together in 10 ays?
	1) $3\frac{3}{4}$ days	2) $3\frac{3}{7}$ days	3) $5\frac{5}{47}$ days	2) $4\frac{4}{9}$ days
52.	If the height of a cylind what percent will its cu	er is increased by 15% an rved surface area change?	d the radius of its base is	decreased by 10%, then by
	1) 3.5% decrease	2) 3.5% increase	3) 5% increase	4) 5% decrease
53.	The price of an article percent. The net percent	is reduced by 25 percent tage effect on the daily sa	t but the daily sale of the le is?	e article is increased by 30
<	1) $2\frac{1}{2}$ % increase		2) $2\frac{1}{2}$ % decrease	
	3) 2% increase		4) 2% decrease	
54.	10 women can complet many days will 5 wome	e a work in 7 days and 1 in and 10 children take to	0 children take 14 days t complete the work?	o complete the work. How
	1) 5	2) 7	3) 3	4) can't be determined
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55.	50 gm of an alloy of with this alloy, so that	gold and silver contains 8 t it may contain 95% gold	30% gold. The quantity of , will be?	of gold, that is to be mixed up
	1) 200 gm	2) 150 gm	3) 50 gm	4) 10 gm
56.	6 years ago, mother's then what was the ag	age was 18 years more th e of the mother 6 years ba	an the son's age. If the sock?	um of their present ages is 30,
	1) 32 yrs	2) 36 yrs	3) 18 yrs	4) 24 yrs
57.	There is a leak in the	bottom of a cistern. When	the cistern is thoroughly	y repaired, it would be filled
	in $3\frac{1}{2}$ hrs. Before g	etting repaired, it takes ha	If an hour longer. If the c	vistern is full, how long would
	the leak take to empt	y the cistern?	- 7 - 2	
	1) 24 hrs	2) 28 hrs	3) 32 hrs	4) 36 hrs
58.	A man engaged a ser one year. He served of of turban is?	vant on the condition that only for nine months and r	he would pay him Rs.90 received the turban and a	0 and a turban after service of an amount of Rs.65. The price
	1) Rs.25	2) Rs.18.75	3) Rs.10	4) Rs.2.50
59.	The average monthly male employees is R employees to female	v salary of all the employees?	ees in an industry is Rs. ale employees is Rs.8,0	12,000. The average salary of 00. What is the ratio of male
	1) 5 : 2	2) 3 : 4	3) 4 : 3	4) 2 : 5
60.	Two persons A and I respectively, B reache	B walk from P to Q, which es Q returns immediately a	ch are at a distance of 2 and meets A at R. Find th	21 km, at 3 km/h and 4 km/h he distance from P to R.
	1) 12 km	2) 16 km	3) 28 km	4) 18 km
61.	If 10% of A's income then B's income is?	e = 15% of B's income = 2	20% of C's income. If su	m of their income is Rs.7800,
	1) Rs.3600	2) Rs.3000	3) Rs.2400	4) Rs.1800
62.	In a flight of 600 km is reduced by 200 km	s, an aircraft was slowed c i/h and the time of flight in	lown due to bad weather acreased by 30 min. Find	The system of the flight?
	1) 1 hr	2) 2 hrs	3) 3 hrs	4) 4 hrs
63.	What is the smallest but leaves no remained	number which leaves remain der when it is divided by 9	ainder 3 when divided by	y any of the numbers 5, 6 or 8
	1) 123	2) 603	3) 723	4) 243
64.	A man buys a scoote yearly installments c compounded yearly, t	or on making a cash down of equal amount in next the cash value of the scoot	payment of Rs.16224 a two years. If the rate of er is?	nd promises to pay two more of interest is 4% per annum,
	1) Rs. 40,000	2) Rs. 46,824	3) Rs. 46,000	4) Rs. 50,000
65.	G is centroid of the e	quilateral $\triangle ABC$ . If $AB =$	10 cm then length of AC	3 is?
<	1) $\frac{5\sqrt{3}}{3}$ cm	2) $\frac{10\sqrt{3}}{3}$ cm	3) $5\sqrt{3}$ cm	4) $10\sqrt{3}$ cm
66.	O and C are respectiv P and O are joined at (PPS = 2)	ely the ortho centre and cin nd produced to meet the s	recumeentre of an acute-ar ide QR at S. If $\angle PQS =$	ngled triangle PQR. The points $60^{\circ}$ and $\angle QCR = 130^{\circ}$ , then
	2  Kr s = ? 1) 30°	2) 35°	3) 100°	4) 60°
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67.	The angle of elevation of the top of a tower from a point on the ground is $30^{\circ}$ and moving 70 metres towards the tower it becomes $60^{\circ}$ . The height of the tower is?				
	1) 10 m	2) $\frac{10}{\sqrt{3}}$ m	3) $10\sqrt{3}$ m	4) 35√3 m	
68.	If $x = \frac{a^2 - 25}{a^2 - 36}$ and, y	$=\frac{a+5}{a+6}$ then find the v	value of $\frac{x}{y}$ is?	ner	
	1) $\frac{a+5}{a+6}$	2) $\frac{a-5}{a-6}$	3) $\frac{x-5}{x+6}$	$4) \frac{x+5}{x-6}$	
69.	If $\cos \theta \csc 23^\circ = 1$ , the second seco	ne value of $\theta$ is?	. 0,		
	1) 23°	2) 37°	3) 63°	4) 67°	
70.	The value of $(1001)^3$ is?				
	1) 1003003001	2) 100303001	3) 100300301	4) 103003001	
<b>Dire</b> base	<b>ctions (Q. 71 – 75):</b> Stud d on it.	y the bar diagram given	below carefully and answ	er the following questions	
71.	The birth-rate in which o	country is 25% more than	that in Germany ?		
	1) India	2) China	3) England	4) New Zealand	
72.	The birth rate in India is	what percent of the birth	-rate in England?		
	1) 165%	2) 155%	3) 140%	4) 100%	
73.	The birth-rate in China i	s how many times the bir	th-rate in Germany ?		
<	1) 0.4	2) 5.2	3) 4.0	4) 2.5	
74.	What is the ratio of birth	-rate in India to that in S	weden ?		
	1) 5 : 11	2) 11 : 5	3) 2 : 1	4) 1 : 2	
75.	By how much percent is	the birth-rate in England	less than the birth-rate in	New Zealand ?	
	1) 30%	2) $33\frac{1}{3}\%$	3) 45%	4) 50%	
		ENGLISH LA	NGUAGE		
Dire	ctions (Q. 76 – 77): Some	part of the sentences hav	e errors and some are corr	ect. Find out which part of	
a ser	tence has an error. If a ser	ntence is free from error,	your answer is (4).	-	
76.	At certain seasons, (1)/ s	some areas on Mars (2)/ is	s subject to strong winds.	(3)/ No error (4)	
77.	Having deprived of their shelter in a school (3)/ N	houses (1)/ in the recent lo error (4)	earthquake (2)/ they had n	o other options but to take	
<b>Dire</b> alter	ctions (Q. 78 – 80): Sen natives are suggested for e	tences given with blanks ach question. Choose the	s to be filled in with an correct alternative out of	appropriate word(s). Four the four.	
78.	Sulochna and Saloni coupassing score in the office	Ild not get admission in t cially exam.	he college they had	already managed to get a	
<	1) even though	2) now that	3) therefore	4) whether	
79.	The criminal was totally	taken when the pol	ice arrested him after a lo	ng chase.	
	1) aback	2) up	3) for	4) away	
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80.	The more your action an	d thought are allied and .	the happier you grow	- v.
	1) invincible	2) divergent	3) integrated	4) unravelled
81.	Out of the four alternat <b>Trimming</b>	ives, choose the one wh	ich best expresses the m	eaning of the given word.
	1) Skimming	2) Arranging	3) Planning	4) Cutting
Dire	ctions (Q. 82 – 83): Choc	se the word opposite in n	neaning to the given word	I.
82.	Stale		<b>A A</b>	2.
	1) Fresh	2) Old	3) Steal	4) Stalk
83.	Vacate		19-	
	1) Evacuate	2) Validate	3) Occupy	4) Empty
84.	Four words are given in spelt correct.	each question, out of whether the second sec	nich only one word is spe	elt correctly. Find the word
	1) Humorous	2) Humourous	3) Humorus	4) Humourus
Dire expre	ctions (Q. 85 – 87): Four esses the meaning of the I	alternative are given for t diom / Phrase.	he Idiom / Phrase. Choose	e the alternative which best
85.	It all happened in the tw	inkling of an eye.		
	1) Before one's own eye	S		
	2) When everyone had t	heir eyes turned away		
<	<ol> <li>3) Very quickly</li> <li>4) Magically</li> </ol>			, ev
86.	Never turn down the hu	mble request of a poor ma	an.	7.0
	1) criticise	2) reject	3) laugh at	4) discourage
87.	To burn the candle at bo	th ends	. 01	
	1) to spend cautiously		2) to be stingy	
	3) to be extravagant		4) to survive difficulty	
Dire unde impr	ctions (Q. 88 – 89): A sen rlined part at (1), (2), (3) ovement is needed your an	tence/ a part of the senter which may improve the nswer is (4).	nce is underlined. Below a sentence. Choose the cor	re given alternatives to the rect alternative. In case no
88.	The film buys frozen sea	food in bulk, packs it into	smaller pouches and then	they sell them to the local
	grocery	$\sim$ 0.		
	1) it sells them	22	2) sell them	
	3) they sell the pouches		4) No improvement	
89.	The disparity of the GD	P between the rich and the	e poor <u>has broadened in</u>	the last some decades.
	1) have widened in the l	ast some decades		
	2) has widened in the las	st few decades		
	3) have broadened in the	e last few decades		
	4) No improvement			

<b>Directions (Q. 90 – 92):</b> In the following question, out of the four alternatives, choose the one which can be substituted for the given sentence.					
90.	A light sailing boat built especially for racing				
	1) Dinghy	2) Canoe	3) Yacht	4) Frigate	
91.	A political leader who tr	ies to stir up people			
	1) Demagogue	2) Dictator	3) Statesman	4) Martinet	
92.	Easily tricked to be foole	ed	•	2.	
	1) Innocent	2) Impulsive	3) Gullible	4) Naive	
Dire sente form	ctions (Q. 93 – 95): You ence is broken into four par a complete meaningful se	are provided with the f rts labelled (P), (Q), (R) a entence and then choose th	irst and the last part of a nd (S). You are required to ne correct combination fro	a sentence. The remaining o arrange this parts so as to $pm(1)$ , (2), (3) and (4).	
93.	It was true that				
	P : the pet dog	110			
	Q : would never sleep ar	nywhere			
	R : we once had	2.			
	S : except on the sofa				
	1) PQSR	2) P R Q S	3) R P Q S	4) S P Q R	
94.	A policeman			X	
	P: to abide				
	Q: if he has to do well,	6.1 1		11	
	R : by the strict letters of	t the law	•	2.	
		$2) \cap S D D$			
05	I) F K Q S	2) Q 5 F K	5) K Q F 5	4) ST K Q	
<i>J</i> <b>J</b> .	P : even if it means some	e humiliation	XY		
	$\Omega$ : but the box must leave	rn	0.		
	R : to complain he said				
	S : to be honest and adm	it he broke our window	nane		
	1) P R O S	2) O S P R	3) R O S P	4) S O P R	
Dire	ctions ( <b>O. 96 – 100</b> ): Rea	d the passage carefully an	d choose the best answer	to each question out of the	
four alternatives.					

#### PASSAGE

Pidgins are languages that are not, acquired as mother tongues and that are used for a restricted set of communicative functions. They are formed from a mixture of languages and have a limited vocabulary and a simplified grammar. Pidgins serve as a means of communication between speakers of mutually unintelligible languages and may become essential, in multilingual areas. A creole develops from a pidgin when the pidgin becomes the mother tongue of the community. To cope with the consequent expansion of communicative functions of vocabulary is increased and the grammar becomes more complex. Where a creole and the standard variety of English coexist, as in the Caribbean, there is a continuum from the most extreme form of

creole to the form that is closest to the standard language. Linguists mark off the relative positions on the creole continuum as the 'basilect' (the furthest from the standard language), the 'mesolect', and the 'acrolect'. In such situations, most creole speakers can vary their speech along the continuum and many are also competent in the standard English of their country.

- 96. Find out a word in the passage which is opposite in meaning to the word- 'Simplified'
  - 1) Complex 2) Expansion
- 3) Restricted

4) Consequent

97. According to the passage 'basilect' means

1) an impure form of a creole

- 2) a form of creole which is furthest from the standard language
- 3) a form of creole which has an extended vocabulary
- 4) a form of creole which is very close to the standard language
- **98.** According to the given passage a pidgin becomes a creole when
  - 1) it ceases to be a means of communication
  - 2) it becomes the mother tongue for a new generation of speakers
  - 3) its vocabulary undergoes some kind to change
  - 4) two or more languages are mixed with an existing pidgin
- **99.** A pidgin develops in a situation when
  - 1) different and mutually unintelligible languages exist side by side
  - 2) a creole becomes the mother tongue of a linguistic community
  - 3) a language with restricted vocabulary undergoes an expansion in grammar and vocabulary
  - 4) two similar language are mixed to create a new language
- 100. According to the passage, a creole continuum is
  - 1) a linguistic term for the mixture of more than two languages
  - 2) a scale which measures the linguistic competence of the speaker
  - 3) a scale in which the proximity of the creole to the standard language is measured
  - 4) a record of the continuous history of a creole

### KEY

1-4; 2-1; 3-4; 4-4; 5-3; 6-3; 7-1; 8-3; 9-2; 10-4; 11-2; 12-4; 13-3; 14-1; 15-4; 16-4; 17-2; 18-1; 19-4; 20-3; 21-1; 22-2; 23-1; 24-1; 25-1; 26-1; 27-2; 28-1; 29-1; 30-3; 31-2; 32-1; 33-1; 34-3; 35-2; 36-3; 37-1; 38-1; 39-2; 40-3; 41-3; 42-2; 43-2; 44-2; 45-2; 46-1; 47-4; 48-2; 49-3; 50-2; 51-3; 52-2; 53-2; 54-2; 55-2; 56-3; 57-2; 58-3; 59-3; 60-4; 61-3; 62-1; 63-4; 64-2; 65-2; 66-2; 67-4; 68-2; 69-4; 70-1; 71-3; 72-1; 73-4; 74-2; 75-2; 76-3; 77-3; 78-1; 79-1; 80-3; 81-4; 82-1; 83-3; 84-1; 85-3; 86-2; 87-3; 88-1; 89-2; 90-3; 91-1; 92-3; 93-2; 94-2; 95-3; 96-1; 97-2; 98-2; 99-1; 100-3.



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11.

- In each set,  $2^{nd}$  number =  $(1^{st}$  number + 9) and  $3^{rd}$  number =  $(2^{nd}$  number + 13) 12.
- 13. The correct sequence is

**a** b b/ a **a** b/ a **b** b/ a a **b**/ a b b/ a

14. As mentioned, the 7<sup>th</sup> day of the month is three day earlier than Friday, which is Tuesday. So, the 14<sup>th</sup> day is also Tuesday and thus the 19<sup>th</sup> day will be Sunday.

15. 
$$10 \times 2 \Rightarrow 10 - 2 = 8 \Rightarrow \frac{8}{2} = 4$$

$$14 \times 4 \Longrightarrow 14 - 4 = 10 \Longrightarrow \frac{10}{2} =$$

$$24 \times 12 \Longrightarrow 24 - 12 = 12 \Longrightarrow \frac{12}{2} = 6$$

Each successive term exceeds by 111 over its previous term. 16.

$$A \xrightarrow{+6} G \xrightarrow{+6} M \xrightarrow{+6} S \xrightarrow{+6} Y$$

2<sup>nd</sup> letter,

$$Z \xrightarrow{-6} T \xrightarrow{-6} B$$

- 18. Clearly, sum of numbers in each row is 17. So, missing number = 17 - (4 + 7) = 6
- 19. As,

As,  
9 16  

$$\downarrow$$
  $\downarrow$   
(3)<sup>2</sup> (4)<sup>2</sup>  
4 36  
 $\downarrow$   $\downarrow$   
(2)<sup>2</sup> (6)<sup>2</sup>  
Similarly  
9 25  
 $\downarrow$   $\downarrow$   
(3)<sup>2</sup> (5)<sup>2</sup>





In 1 hr it filled  $\frac{2}{7}$  part  $\sum_{unc} e^{-ut}$   $\lim_{unc} 28 \text{ hrs.}$   $\lim_{unc} 28 \text{ hrs.}$   $\lim_{unc} 28 \text{ hrs.}$   $\lim_{unc} 28 \text{ hrs.}$   $\lim_{unc} 90 + \text{ turban}$   $\lim_{unc} 90 + \text{ turban} \times \frac{9}{12}$   $= \text{Rs. } 90 \times \frac{3}{4} + \frac{3}{4} \text{ turban}$   $\lim_{unc} \text{Rs.} \frac{135}{2} + \frac{3}{4} \text{ turban}$   $\lim_{unc} 13^{2^{c}}$ Cistern with leakage can be filled in 4 hrs 58.  $\therefore \text{Rs.} \frac{135}{2} + \frac{3}{4} \text{ turban}$ aduprationa = Rs. 65 + turban  $\therefore \frac{1}{4}$  turban =  $\frac{135}{2}$  - 65 = Rs.  $\frac{5}{2}$  $\therefore$  Turban  $\frac{5}{2} \times 4 = \text{Rs. 10}$ 59. Male employees = xFemale employees = y  $\therefore$  (x + y) 12000 = x × 15000 + y × 8000  $\Rightarrow$  (x + y) × 12 = 15x + 8y  $\Rightarrow 12x + 12y = 15x + 8y$  $\Rightarrow$  3x = 4y  $\Rightarrow \frac{x}{v} = \frac{4}{3}$  $\Rightarrow$  x : y = 4 : 3 **60.** Distance travelled by A = 2 × distance between two points ×  $\left(\frac{a}{a+b}\right)$  $= 2 \times 21 \times \frac{3}{7} = 18$  km 61. Total income will be 7800 10% of A = 15% of B = 20% of C If 5% = 1 then, www.eenadupratibha.net







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 $\Rightarrow \csc 23^\circ = \csc (90^\circ - \theta)$  $\Rightarrow 23^\circ = 90^\circ - \theta$  $\Rightarrow \theta = 90^\circ - 23^\circ = 67^\circ$ **70.** Look at the pattern:

 $1001 \times 1001 = 1002001$ 

 $1001 \times 1001 \times 1001 = 1003003001$ 

**71.** Birth-rate of Germany = 16

Birth-rate of England = 20

% Diff. = 
$$\frac{20 - 16}{16} \times 100 = 25\%$$

It is 25% more than 16.

**72.** Birth-rate of India = 33

Birth-rate of England = 20

 $\therefore$  Required percentage =  $\frac{55}{20} \times 100 = 165\%$ .

**73.** Birth-rate of China = 40 Birth-rate of Germany = 16

$$\therefore$$
 Required answer  $\frac{40}{16} = 2.5$ 

74. Required ratio = 
$$\frac{33}{15} = \frac{11}{5} = 11:5.$$

**75.** Birth-rate of England = 20

Birth-rate of New Zealand = 30

Required percentage

$$= \frac{30 - 20}{30} \times 100 = \frac{100}{3} \% = 33 \frac{1}{3} \%$$

- **76.** 'Subject to' is a phrasal verb often used in passive form. Thus, it should be as 'are subjected to strong wind'.
- 77. Change 'options' into 'option'. 'No other' takes singular noun.
- 88. As it appears 'The film' is a company or organisation, the pronoun should be 'it'.
- **89.** 'Disparity' can only be widened not broadened.

(This model questions prepared by subject experts of RACE Institute, Hyderabad.)