CENTRE:										TIM	E: 09.00	a.m. 1	2.00 noon
DATE:	0	4	1	1	2	0	1	8	Te	est Bookle	et No.:		
EXAM SEAT	NO. :			1	3	6	1	9	0	0			
EXAM SEAT N	NO. (in	wor	ds)	one	three	six	one	nine	zero	zero			

NATIONAL MEANS-CUM-MERIT SCHOLARSHIP SCHEME EXAMINATION 2018-19 (STD. VIII)

Instructions to the Candidates:

1. PART I Mental Ability Test Time 90 Minutes Maximum Marks 90
PART II Cholastic Aptitude Test Time 90 Minutes Maximum Marks 90

- 2) Write your Seat No. both in figures and in words on this Question Booklet (above) as Well as on the Answer Sheet supplied to you.
- 3) Each question carries one Mark.
- 4) All questions are compulsory.
- 5) You have to mark your answers on Answer sheet provided with the Question Booklet. Each question is provided with four alternatives. Answer to each question is to be indicated by making a dark circle on the correct alternative in the Answer sheet from amongst those given against the corresponding question in the Question Booklet.
- 6) The answer sheet have two parts:

 PART- I Mental Ability Test & PART II Scholastic Aptitude Test. Answers to questions of MAT (PART-I) are to be indicated in PART I Portion of the Answer Sheet. Answers to questions of SAT (PART-II) are to be indicated in PART II portion of the Answer Sheet.
- 7) Rough work can be done any where in the question booklet.

Please Note the Centre Codes:

1.	Bicholim	0001
2.	Bardez	0002
3.	Pernem	0003
4.	Sattari	0004
5.	Tiswadi	0005
6.	Ponda	0006
7.	Salcete	0007
8.	Sanguem	0008
9.	Canacona	0009
10.	Quepem	0010
11.	Dharbandora	0011
12.	Mormugao	0012
	Fare Laboration	

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			MENTAL AB	ILITY TEST-NN	MMSSE 2018	-19		
				VIII				
	Understa	NS:- (Q. No. and the patter the series		e the correct a	alternative o	ut of the giv	en alternati	ves and
Q. 1.	16, 18, 3	2, 35, 48, 5	3, 64, 71, 8	0				
	(1)	18	(2)	30	(3)	24	(4)	26
		2 20 20	42 2					
2. 2.	0, 2, 6, 1	.2, 20, 30,	42, ?					
	(1)	48	(2)	50	(3)	52	(4)	56
							1	
Ղ. 3.	2, 6, 15,	?, 55, 78,	126					
	(1)	30	(2)	28	(3)	46	(4)	50
2. 4.	2, 12, 36	, 80, 130, ?)				9	
	(1)	252	(2)	174	(3)	168	(4)	206
Q. 5.	In a librar	y there are 4	books on dif	fferent subject	ts are lying o	n a table on	e over the o	other. In
	how man (1)	y ways can t 16	he they be ar (2)	ranged one ov 4	ver the other (3)	24	(4)	20
	given bel	ow:		the given info		efully and a	nswer the o	uestions
				id a round tab	le.		r 5 11 1	
	• V	is second to	the left of T					
	• T	s fourth to t	he right of N	1				
	• D	and P are no	ot immediate	neighbours o	of T			
	• · D	is third to th	e right of P					
		is not an im	imediate nei	ghbour of P				
	• W	is not an im		ghbour of P				
Q. 6.	• W		of K	ghbour of P			dineri dalam	
Q. 6.	• W	is to the left	of K	ghbour of P	(3)	M	(4)	W

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Q. 7.	Who is to the immediate left of V?												
	(1)	Р	(2)	M	(3)	W	(4)	None of these					
Q. 8.	Who	is third to the righ	t of V?				nggalag.	eration of					
	(1)	R	(2)	T control of	(3)	K Mariana Arriana Arriana Mariana	(4)	Р					
Q. 9.	Wha	t is R's position wit	h respe	ct to V?			MUMMA						
	(1)	Second to the left	(2)	Third to the right	(3)	Fourth to the left	(4) F	ifth to the right					
Q. 10.	and	walks 20 metres. An she turns to the	gain sh	towards east. Aft e turns to the left d walks a distance	and w	alks a distance of	30 m	etres straight. from starting					
	(1)	45 m	(2)	35m	(3)	40m	(4)	30m					
Q. 11.		sum of the ages of es 5 years back?	Kavita,	Lalita and Amita 20	years	later will be m. Wh	nat wa	s their sum					
	(1)	<i>m</i> − 75 37	(2)	<i>m</i> – 5	(3)	m – 25	(4)	m - 35					
	The	CTIONS:- (Q. No.:- terms have been all e given alternative	rranged	in some order. On	e term	is missing. Find th	e miss	ing term out					
Q. 12.	+	F, ?, R, B											
	(1)	K	(2)	G	(3)	1	(4)	Н					
Q. 13.	EV, C	ST,?,KP,MN											
	(1)	IQ	(2)	IR	(3)	IS	(4)	HS					
Q. 14.	AAB	, DCC, IEE, PGG, ?			11.000.00								
	(1)	YKI	(2)	YYK	(3)	YIK	(4)	YKK					
Q. 15.	E22,	J17, O12,?				5 E E							
	(1)	R7	(2)	U7	(3)	S7	(4)	T7					
			-0	n'al									

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DIRECTIONS:- (Q. No.:- 16)

Below in the question are given two statements I and II. One of these statements may be the effect of the other statements. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

Q. 16. Statements:

- I. Importance of Yoga and exercise is being realized by all sections of the society.
- II. There is an increasing awareness about health in the society particularly among middle ages group of people.
- 1. Statement I is the cause and statement II is its effect
- 2. Statement II is the cause and statement I is its effect
- 3. Both the statements I and II are independent causes.
- 4. Both the statements I and II are effects of independent causes

Q. 17.

If
$$\frac{58}{73} = 4$$
 then what is $\frac{64}{22} = ?$

- (1)
- 3
- (2)
- 4
- (3)
- 6
- (4)

8

DIRECTIONS:- (Q. No.:- 18-22):

The following equations are wrong due to incorrect order of signs. Choose the correct order of signs from the following alternatives so that equations become correct.

- Q. 18. 5+9=4-8
 - (1)
- + =
- (2)
- = + -
- (3)
- = -- +
- (4)

Q. 19. $4 \div 8 = 2 \times 4$

- (1)
- ÷ × =
- (2)
- = ÷ ×
- (3)
- (4)

× = ÷

- Q. 20. $25 2 = 75 \times 25$
 - (1)
- x = -
- (2)
- $= \times \div$
- (3)
- $+ = \times$
- $(4) = + \times$

Q. 21. $|66 = 27 \times 13 - 3$

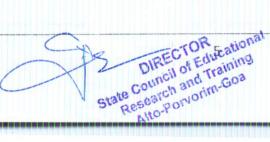
- (1)
- $= \times -$
- (2)
- $\times = -$
- (3)
- = +
- (4) -=>

- Q. 22. $15 = 8 + 23 8 \times 0$
 - (1)
- $+ = \times$
- (2)
- $= + \times -$
- (3) =

(4) - x = +

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Q. 23.	A rour	nd cake is cut	into 25 piece	s, how many cut	s are req	uired?	430	
	(1)	22	(2)	23	(3)	24	(4)	25
Q. 24.	Choos	e the box that	t is similar to	the box formed	from the	given sheet of p	paper (X	
			Ψ					
		(x)	(1)	(2)	(3)	(4)		
	(1)	1 and 4 onl	у (2)	3 and 4 only	(3)	1 and 2 only	(4)	2 and 3 only
								ulėriųs, ir
	DIREC	TIONS:- (Q.No	o:- 25-29)				- Light Line Bo	
				e of the letters	are missir	ng,. Choose the	correct	alternative
Q. 25.	a_ba_	bbaa_baab_a						
	(1)	babb	(2)	abab	(3)	bbbb	(4)	baba
Q. 26.	abc_a	_cc_bccab_c						
	(1)	ccab	(2)	bbca	(3)	aabc	(4)	cbac
Q. 27.	ab_cca	abccb_cc						
	(1)	aabc	(2)	bbca	(3)	ccac	(4)	acbb
Q. 28.	_bcda	_cdab_dabc_						
	(1)	bcad	(2)	abcd	(3)	adbc	(4)	cabd
Q. 29.	_ab_c	dda_bb_c_					Lay s	telesco al 100
	(1)	abcacdd	(2)	bcaddba	(3)	aabbccd	(4)	dcabbda
					at			



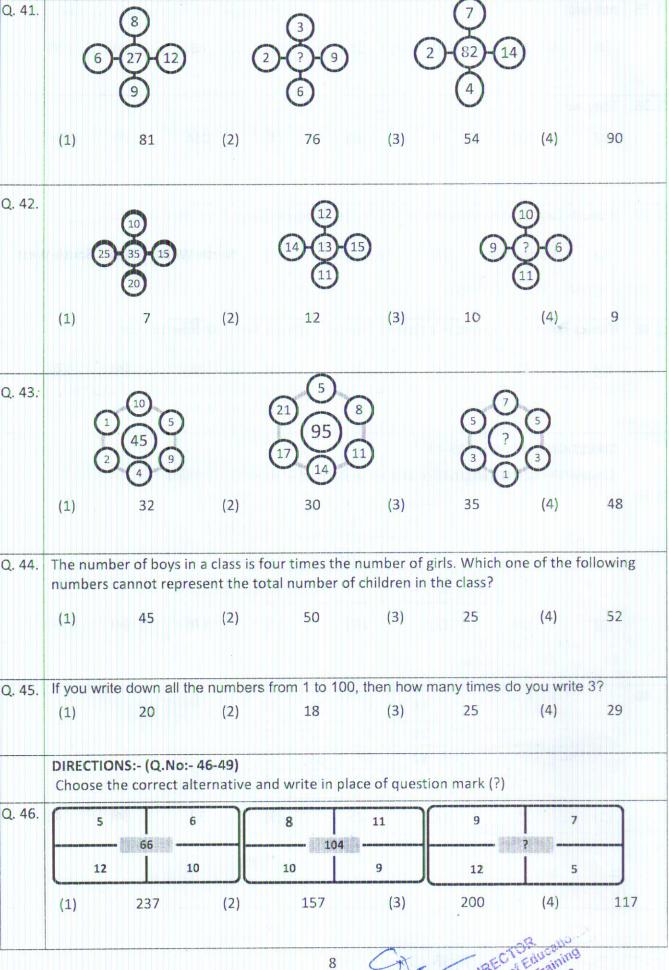
	What was the									
	(1) Tu	esday	(2)	Wedn	esday	(3)	Thurs	day	(4)	Friday
. 31.	A,B,C are any	different	digits fr	om 0 to 9.	Then w	hich of	the follow	ing opti	on is co	rrect
			A		5		В			
				The state of	X		С			
			В		6		2			
	(1) A=1,B=4	4,C=3	(2)	A=5,B=3,0]=4	(3)	A=3,B=6,C	=2	(4) A:	=4,B=6,C=2
									Ç.	
				ood are			CODES 468			
				ood are		468				
	•		We no	t bad			107		_	
			I am go	bod			938			
			They a				094		-	
	8 4]CD, 1917		You no	ot good			728]	
0.22	I bad									
Q. 32.		39	(2)	3	1	(3)	87		(4)	23
Q. 32.	(1)	39								
Q. 32.	(1)	39								
Q. 33.	You are we	142	greenee			(2)	0.5		(4)	276
4.1	-	620	(2)	2	207	(3)	92	20	(4)	276
4.1	You are we	142	(2)	2	07	(3)	92	20	(4)	276
Q. 33.	You are we	142	(2)		207	(3)		20	(4)	276

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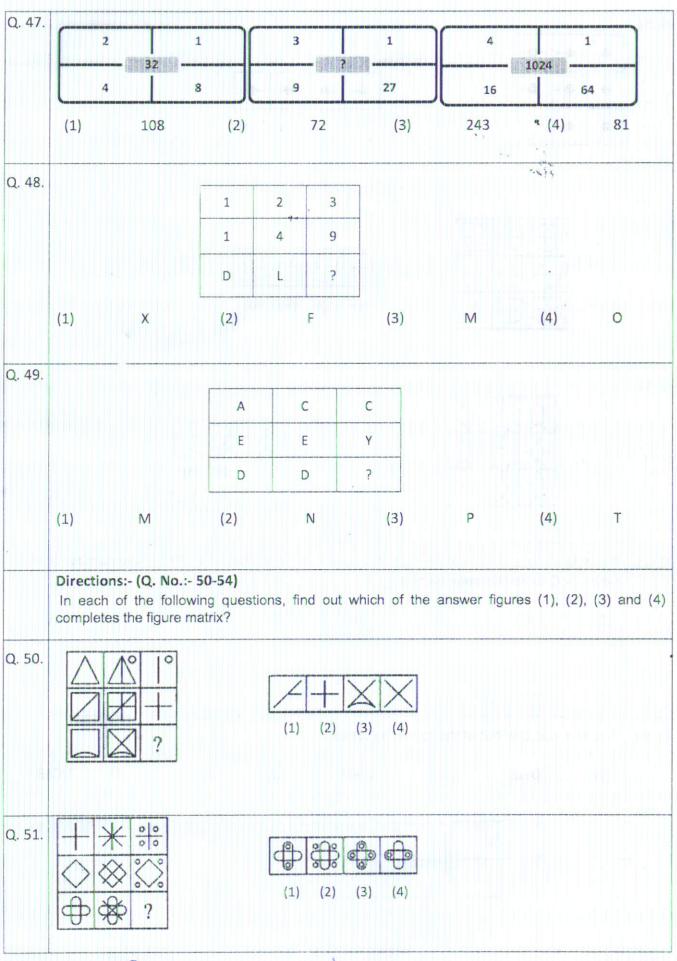
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2. 35.	not bad							and a	
1. 35.	not bad								
	(1)	31	(2)	17		(3)	48	(4)	38
2. 36.	They we	4							
	(1)	137	(2)	086		(3)	034	(4)	987
1									
2. 37.	If South-	East becomes N	North and N	lorth-Eas	t beco	mes W	est then West	becomes	
	Saving					(2)	No. of the same	m gilling gilling	Carrella Mage
	(1)	North-East	(2)	South-Ea	ist	(3)	North-Wes	t (4)	South-West
4 - L-1	- 15 m								
. 38.	Rishika r	anks twenty fir	st in a class	of fifty-o	ne. W	hat is h	er rank from	the last?	
	(1)	30	(2)	31		(3)	26	(4)	21
	(1)	30	(2)	31		(0)		and the same	
			a da 45						
		ONS:- (Q. No.:-							
	Choose	the correct alte	ernative an	d write in	place	of ques	stion mark(?)		
(. 39.						7	()		
			11	82		7	2:		
			13	122		9			
			15	?		10			
							J		
	(1)	130	(2)	155		(3)	176	(4)	175
2. 40.			18	6	36	12			
	19		25	8	50	17			
			32	12	64	22	-		
			39	14	78	?			Hald Relland
				2011	, ,	4	Tachen Table		
	(1)	15	(2)	25		(3)	32	(4)	41

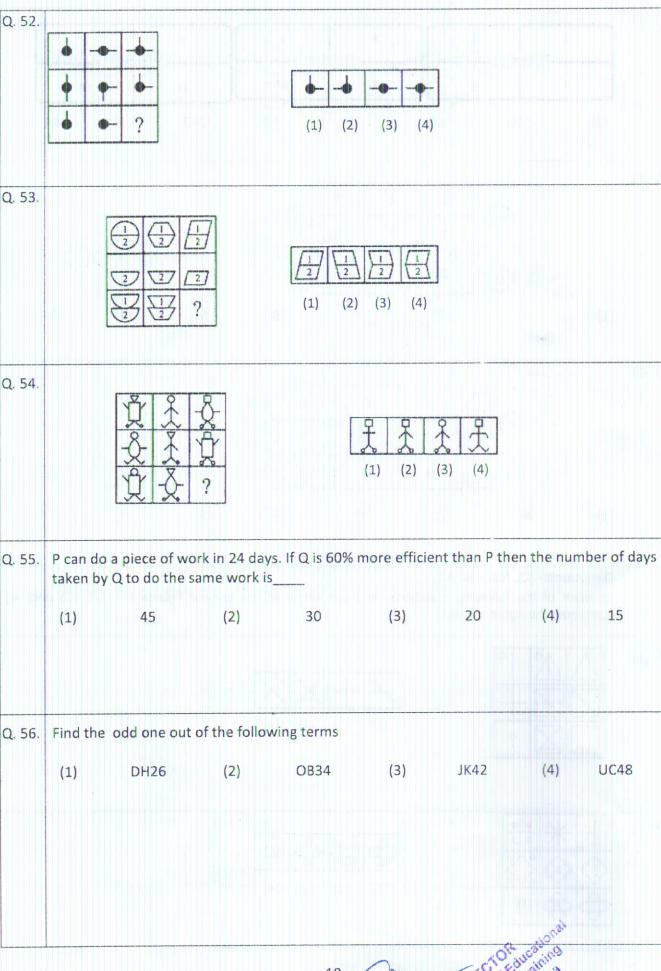
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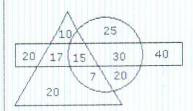


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Directions:- (Q. No.:- 57-61)

Study the Venn diagram given below of a city in western country and answer each of the following questions.



→ Persons who takes tea

→ Persons who takes coffee

	57	How	many	persons	who	take	tea	and	wine	but	not	coffee	?
U.	5/.	LIOW	Hidily	persons	AALIO	Lanc	LUCA	CI IC	*****	~~.		55,1.55	1

(1) 20

- (2)
- 17
- (3)
- 25
- (4)

15

	are there who take both tea and coffee but no	

- (1)
- 22
- (2)
- 17
- (3)
- 7
- (4) 20

- (1)
- 100
- (2)
- 82
- (3)
- 92
- (4) 122

- (1)
- 90
- (2)
- 45
- (3)
- 25
- (4)
- 20

- (1)
- 20
- (2)
- 17
- (3)
- 25
- (4)

Q. 62. How many times in a day hands of a clock are in a straight line but in opposite direction?

- (1)
- 22
- (2)
- 44
- (3)
- 24
- (4)

48

15

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	In the	followi	Q. No.:- ng ques n set of	tions le	tters	are arran	ged i	n the fo	rm of pyra	amid	. From	the pyramic
	w	T V	O S U	H N P R	Y G I M Q	N X Z F J L	A M L W A E K	B O P V B	C K Q U	D J R T	E I S	F H G
Q. 63.	HNPRC	,GIMQI	_,ZFJLK,	P,PVBDC								
	(1)	KQ	UCT	(2)		QLKDC		(3)	IFAVQ		(4)	WAEKD
Q. 64.	FHSIE,I	STRJ,RT	cuq,uc	DBV,?								
	(1)		(DC	(2)		BDKEA		(3)	LPVBD		(4)	VBDKE
Q. 65.	YGIM,L	OXY,ZF.	IL,?									
	(1)	KP	WZ	(2)		JQVA		(3)	CUQK		(4)	PWZG
Q. 66.	GYXOV	V,ZXOLP	, FZWP	V,?								
	(1)	PV	QJE	(2)		EBURI		(3)	AWPKQ		(4)	KQUCT
Q. 67.	AMON	B, YGIHZ	z,?									
	(1)	ZF	JAI	(2)		FAVQJ		(3)	LPVQJ		(4)	OSUTP
Q. 68.			married e family		nd ea	ch one of	them	have th	ree childre	n. Ho	ow man	y members
	(1)		.2	(2)		21		(3)	24		(4)	25
9						12				108	ucational	

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Q. 69.	Choose the	correct wat	er image of	the figure X	?		and a control of the	
			(x)					
		(1)	(2)	(3)	(4)			
Q. 70.	Count the n	umber of tr	iangles in th	ıe given figu	ıre			
					7			
	(1)	12	(2)	16	(3)	14	(4)	13
		n following			pers given b	efore :: ar	nd after ::	have same
Q. 71.	63:77::?:105 (1)	89	(2)	81	(3)	91	(4)	99
Q. 72.	12:30::20:?	24	(2)	42	(3)	30	(4)	28
Q. 73.	?:122::168:2	90	_					
	(1)	32	(2)	56	(3)	61	(4)	48
Q. 74.	2:?::28:65				2		TIME SEPTIME	
	(1)	9	(2)	11	(3)	13	(4)	12
Q. 75.	If $B \times Y = 50$, F×R = 10	08. What is i	? in L × ? = 2	252			
	(1)	U	(2)	V	(3)	W	(4)	Х
			0	onal.				

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2. 76.	If $B^{c} = 8$	$, O^B = 225$	then $E^D =$					
*4	(1)	125	(2)	625	(3)	225	(4)	525
շ. 77.	If $B^2 + H^2$	$rac{1}{2} = 68$ and L	$L^2 + C^2 = 1$.53 then <i>T</i> ² +	· E ² is			
	(1)	195	(2)	375	(3)	256	(4)	425
Q. 78.	If M + N -	- <i>K</i> = 16, <i>T</i>	+S-Z=	13,then <i>Y</i> —	K + N is_			
-	(1)	24	(2)	20	(3)	28	(4)	18
2 70	If W · V v	C = 6 D ÷	$D \times W = 0$	92 then <i>T</i> ÷ <i>B</i>	∨ H is			
Q. 79.				80		42	(4)	60
Q. 80.	The sum o	of the first 45	natural nu	mbers is				
	(1)	1395	(2)	1080	(3)	1175	(4)	1035
Q. 81.		started at noo		inutes past 5, t				
	(1) 145°		(2)	120°	(3)	155°	(4)	90°
	Directions Odd one o	s:- (Q. No.:- 8	82- 84)			70 10 10 10 10 10 10 10 10 10 10 10 10 10		
Q. 82.		e, Paneer, Bu	utter					
	(1)	Milk	(2)	Paneer	(3) B	utter	(4)	Ghee

 $\left(16,\frac{1}{6}\right)$

14

 $\left(20,\frac{1}{5}\right) \tag{2}$

(1)

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 $\left(10,\frac{1}{10}\right)$

 $\left(25,\frac{1}{4}\right)$

(3)

Q. 84.	. (3,4,5),(6,8,10),(7,8,16),(5,11,14)									
	(1)	(6,8,10)	(2)	(3,4,5)	(3) (!	5,11,14)	(4)	(7,8,16)		
Q. 85.	A bird lo parrots b in all ?	ver was asked out six, all pig	d how many eons but six	birds he had , and all koels	in the bask but six. Ho	et. He replied ow many birds	that ther he had in	e were all the basket		
	(1)	9	(2)	24	(3)	16	(4)	0		
Q. 86.	What is t	he unit digit	of the expar	nsion 132 ⁹²						
	(1)	4	(2)	6	(3)	8	(4)	2		
Q. 87.	The cost	of 7 chairs an	nd 5 tables is	₹ 4518 then t	he cost of	21 chairs and	15 tables	is		
	(1)	₹ 9036	(2)	₹ 18072	(3)	₹ 13554	(4)	₹ 4518		
Q. 88.		the following L5,720,X,1130		will fit in plac	e of X?		(1 (35))			
	(1)	925	(2)	824	(3)	1030	(4)	721		
Q. 89.	The differ	ence of two ent and the :	numbers is 1 15 as remair	1365. On divid nder. What is t	ing the larg	ger number b	y the sma	ller, we get		
	(1)	240	(2)	270	(3)	300	(4)	385		
Q. 90.	Choose the alternative which closely resembles the mirror image of word MAGAZINE (1) MAGAZINE (2) PRIZADAM									
	(3) MAO.		(2) BNIZA							
							1. 1.3.5			

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Scholastic Aptitude Test (VIII)

Part I	1	Time: 10.30 a.m. to 12.00 noon	Marks: 90
Q. 1.	The force acting on unit	area of a surface is	
	(1) Pressure	(2) Velocity	
	(3) Force	(4) Displacement	
Q. 2.	An example of a contact	force from the following is	
	(1) Magnetic force	(2) Gravitational force	
	(3) Electrostatic force	(4) Frictional force	
Q. 3.	The grease is used betw	een the moving parts of the machine to	<u> 1. julijan</u> 1786 se
	(1) increase the friction	(2) reduce the friction	
	(3) equalize the friction	(4) to maintain the friction	
Q. 4.	In human beings the so	und is produced by	
	(1) diaphragm	(2) Oesophagus	
	(3) larynx	(4) Trachea	
Q. 5.	An object oscillates 24 ti	imes in two seconds, then its frequency is	
	(1) 48 Hz	(2) 12 Hz	
	(3) 26 Hz	(4) 28 Hz	
Q. 6.	The unit of loudness of s	sound is	
	(1) Decibel	(2) Diopter	
	(3) Watt	(4) Coulomb	
Q. 7.	The device used to dete	ect a charge on the body is	
	(1) microscope	(2) telescope	
	(3) electroscope	(4) stethoscope	
	When the light ray strike reflect is	es at an angle of 30° on a plane mirror, the a	ngle at which the light ray
	(1) 60°	(2) 15 ⁰	
	(3) 40°	(4) 30°	
Q. 9.	The dark muscular struct	cure of the human eye is	
	(1) pupil	(2) cornea	
	(3) cones	(4) iris	OR stional
		16	DIRECTOR DIRECTOR Council of Educational Training Alto-Porvorim-Goa Alto-Porvorim-Goa
			he Alto.

Q. 10.	A person standing 1m away from the plan	ne mirror finds his image at
	(1) 2 m	(2) 0.5 m
	(3) 1 m	(4) 0.25 m
0 11	. The first Indian artificial satellite was	
	(1) Aryabhatta	(2) Kalpana - I
	(3) Bhaskara	(3) INSAT
Q. 12.	. The largest planet of our solar system is	
	(1) Jupiter	(2) Mercury
	(3) Mars	(4) Venus
Q.13.	An element forms a gaseous oxide, whi litmus paper turns red. The element is	ch on dissolving in water gives solution in which blue
	1) sodium	2) sulphur
	3) calcium	4) magnesium
Q. 14.	Which of the following is not a chemical	change ?
	1) Electrolysis of water	2) Rusting of Iron
	3) Melting of ice	4) Burning of wood
Q. 15.	Which of the following air pollutant recomost.	duce oxygen carrying capacity of blood in Human, the
	1) nitrous oxide	2) sulphur dioxide
	3) carbon dioxide	4) carbon monoxide
Q. 16.	Master Ketan was given some samples o	f fuels.
	(a) wood	(b) coal
	(c)petrol	(d) LPG.
	Which among them is/are fossil fuel/s?	
	1) only (b),(c) and (d)	2) only (a)
	3) only (a), (b), (c)	3) only (a), (c) & (d)
Q. 17	. The substance which sublimes on heatin	g is
	1) common salt	2) iodine
x	3) sugar	4) alum
		17 TOTOR MORE

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- Q. 18. Mast Nuruddin was testing some gases in the chemistry laboratory. One of the gases turned lime water milky. Nuruddin concluded that the gas is-----1) Hydrogen 2) Nitrogen 3) Carbon dioxide 4) Oxygen Q. 19. In most of the Electrical appliances, thermosetting plastic used is 1) Potythene 2) PVC 3) Melamine 4) Bakelite Q. 20. Very often copper vessel when exposed to moist air for a long period, develops a greenish layer on the surfaces. This is a mixture of -----1) Cu(OH)2 + CuCO3 2) Cu(OH)₂ + CaCO₃ 4) CuCO₃ + FeSO₄ 3) $CuCO_3 + H_2O$ Q. 21. Seema was conducting an experiment with sodium hydroxide and Aluminum metal. She brought a burning matchstick near the mouth of the test tube and the gas escaping out of the test tube started burning by making a pop sound. This means that gas is ----1) Oxygen 2) Nitrogen 3) Carbondioxide 4) Hydrogen Q. 22. Which of the following can be beaten up, to form thin sheets? 1) gold 2) phosphorus 3) oxygen 4) charcoal Q. 23. Which of the following statements 'a' to 'd' are true for an Ideal Fuel b) have Calorific value a) cheaper and easily available d) produce many pollutant gases c) easily transportable 2) (b) and (c) are true 1) (a) and (b) are true 3) (b) and (d) are true 4) (a), (b), (c) and (d) are true
- Q. 24. Pollination is best defined as
 - (1) transfer of pollen from anther to stigma
 - (2) germination of pollen grains
 - (3) growth of pollen tube in ovule
 - (4) visiting flowers by insects

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Q. 25.	Process of cell division can take plac	e by	
	(1) heterosis	(2) fusion	
	(3) mitosis	(4) none of these	
Q. 26.	Which one of the following has haus	storia or sucking roots ?	
	(1) Orchids	(2) Mango	
	(3) Chestnut	(4) Cuscuta	
Q. 27.	The fruit after ripping becomes soft.	It is due to ?	
	(1) dissolution of tannin in sap	(2) dissolution of middle lamella	
	(3) formation of ethylene gas	(4) formation of auxin	
Q. 28.	Spore formation occurs in		
	(1) Yeast	(2) Hydra	
	(3) Amoeba	(4) Rhizopus	
0. 29.	Which one among the following is kn	nown as 'animal starch' ?	
	(1) Cellulose	(2) Glycogen	
	(3) Pectin	(4) Chitin	
Q. 30.	The unit structure of genes is made u	up of?	
	(1) RNA	(2) DNA	
	(3) Endoplasmic reticulum	(4) Magnesium	
Q. 31.	Which of the following diseases is car	used by a virus ?	
	(1) Plague	(2) Polio	
	(3) Tetanus	(4) Leprosy	
Q. 32.	The function of Trypsin is to ?		
	(1) Break down fats	(2) Break down proteins	
	(3) Synthesize proteins	(4) Break down Carbohydrates	
Q. 33.	Carrot is orange in colour because ?		
	(1) It grows in the soil	(2) It is not exposed to sunlight.	
	(3) It contains carotene	(4) The entire plant is orange in colour	

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Q. 34.	insects responsible for transmitting disea	ses are called :	
	(1) Transmitter	(2) Drones	
	(3) Vector	(4) Conductor	
Q. 35.	Prokaryotic cell lacks		
	(1) nucleolus	(2) nuclear membrane	
	(3) membrane bound organelles	(4) all of these	
Q. 36.	Who wrote the book War of Independent	ce 1857 ?	
	1) Sane Guruji	2) Aurobindo Ghosh	
	3) Veer Savarkar	4) Bhupenddranath Datta	
Q. 37.	Which Act authorised the Government to	arrest any Indian without inquiry ?	ner in E
	1) Rowlatt Act	2) Martial Law	
	3) Black Act	4) None of these	
0 20	Eveny country has its own		
Q. 38.	Every country has its own	2) Political Heritage	
	3) Independence	4) Background	
Q. 39.	Where is National Defence Academy ?		
	1) Mumbai	2) Pune	
	3) Delhi	4) Dehradum	
Q. 40.	The Bible, the holy book of Christians is in	nlanguage.	
	1) English	2) Latin	
	3) French	4) Hebren	
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Q. 41.	Who is called the father of French Revolu	tion?	
	1) Rousseau	2) Voltaire	
	3) Thomas Jefferson	4) Louis XVI	
Q. 42.	Which was the first newspaper in India?		
	1) Darpan	2) Prabhakar	
	3) Amrit Bazar Patrika	4) Kesari	onal
		20	of strong

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Q. 43.	Which British Prime Minister made	e declaration about Indian Independence in British Parliament?
	1) Churchill	2) Thatcher
,	3) Atlee	4) Roosevelt
Q. 44.	Who reached the southern tip of	Africa in the hope of finding a new sea route to India?
	1) Vasco-da-Gama	2) Bartolomeu Dias
	3) Amerigo	4) Columbus
Q. 45.	Who was the first President of An	nerica ?
	1) George Washington	2) Thomas Jefferson
	3) Martin Luther king	4) George Bush
Q. 46.	According to which treaty did the B	British get the Right to collect Land Revenue in Bengal Province?
	1) The Treaty of Vasai	2) The Treaty of Allahabad
	3) The Treaty of Salbai	4) The Treaty of Merath
Q. 47.	Who founded the Asiatic Society	
	1) Max Muller	2) Lord Bentinck
	3) William Jones	4) Lord Dalhousie
Q. 48.	Which one of the following deter	mines the thickness of soil profile ?
	1. Parent rock	2. Relief
	3. Time	4. Climate
Q. 49.	The thick black liquid found betw	veen the layers of rocks is called
	1. Coal	2. Petroleum
	3. Platinum	4. Natural gas
Q. 50.	Making flour from wheat is an ex	cample of
	1. Secondary activity	2. Primary activity
	3. Tertiary activity	4. None of the above
Q. 51.	Electricity produced from Coal is	called
	1. Hydel power	2. Nuclear power
	3. Geothermal power	4. Thermal power
		21 DIRECTOR DIRECTOR DIRECTOR Council of Educational State Council and Training Research and Training Alto-Porvorim-Goa Alto-Porvorim-Goa
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Q. 52.	The difference between the birth rate ar	nd the death rate is called
	1. Birth rate	2. Death rate
	3. Natural growth rate	4. Growth rate
Q. 53.	Which one of the following methods is slopes?	the most appropriate to check soil erosion on steep
	1. Intercropping	2. Mulching
	3. Rock dam	4. Terrace farming
Q. 54.	Which one of the following is a intermed	liate direction ?
	1. North – West	2. North – East
	3. South – West	4. All the above
Q. 55.	If the time of sunrise at a place 97°E in A local time at a place 68°E in Gujarat.	runachal Pradesh is 6.00 a.m. what will be the probable
	1. 7 a.m.	2. 8 a.m.
	3. 5 a. m.	4. 4 a.m.
Q. 30.	 The Sun's rays are vertically overhead tw Tropic of cancer and Tropic of Caprico Tropic of cancer and Arctic circle Tropic of Capricorn and Antarctic circle Tropic of Capricorn and Arctic circle 	orn.
Q. 57.	Which one of the following industries is t	the oldest industry in the world ?
	1. Automobile industry	2. Textile industry
	3. Hospitality industry	4. Information Technology industry
Q. 58.	Which are three main factors that cause	population change ?
	1. Births, deaths and migration	2. Births, deaths and marriage
	3. Births, deaths and life expectancy	4. Births, deaths and sex ratio
Q. 59.	A narrow zone where all forms of life exists	st is called
*	1. Lithosphere	2. Hydrosphere
	3. Biosphere	4. Atmosphere
		4. Atmosphere 22 OIRECTOR OIRECTO
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Q. 60.	Which nations can become members o	f the United Nations ?
	1) Sovereign	
	2) Republic	GLICE 134 - PRINCIPAL DESCRIPTION OF LE
	3) Those countries who Recognize the	conditions of United Nations
	4) Imperial	Langua panggapa ka ang panggapa tong ti strappana panggapak ti St. D.
Q. 61.	Which is the stage to solve International	al peace problems ?
	1) United Nations organization	2) World Trade organization
	3) SAARC	4) None of these
Q. 62.	How many Nations comprise the Secur	ity council of the United Nations ?
	1) 5	2) 10
	3) 15	4) 20
0, 63,	When was the conference about finalis	sation of environmental Programme organized ?
α. σσ.	1) 1972	2) 1992
	3) 1997	4) 2002
	17, 77-	a substitution in the state of
0.64	Where is the Food and Agriculture orga	anization situated ?
α. σ ;;	1) Rome	2) Paris
	3) Vienna	4) Washington
0.65	To preserve is at the core of	f India's Foreign policy.
α, σσ.	To create friendly Relations	2) To establish dominance
	3) To preserve International Peace	4) Economic Development
Q. 66.	No country in the world is totally	in every respect.
	1) Sovereign	2) Self sufficient
	3) Self reliant	4) None of these
Q. 67.	The chiefs of the three forces are appo	pinted by
	1) Prime Minister	2) Defence Minister
	3) President	4) Governor
		OR AND
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- Q. 68. Where is the level of literacy high? 1) In poor Nations 2) In rich Nations 3) In developed Nations 4) In developing Nations Q. 69. Who appoints the Chairperson of National Human Right Commission? 1) President 2) Prime Minister 3) Retired Judge of Supreme Court 4) None of these Q. 70. Who was the first female Chairperson of the United Nations General Assembly? 1) Smt Vijayalaxmi Pandit 2) Smt Sarojini Naidu 3) Smt Indira Gandhi 4) Smt Margaret Thatcher $\sqrt{0.25}$ X $\sqrt{100}$ Q. 71) $\sqrt{0.81}$ 1) 4.5 2) 0.45 3) 0.045 4) 45 Q. 72) The mean of 10, 3, 8, x, 5 is 6. Find the value of x1) 4 2) 3 3) 6 4) 5 Q. 73) An article is at 10 % more than the cost price. If discount of 10 % is allowed then which of the following is right? 1) 1 % gain 2) 1% loss
- - 3) no gain no loss

- 4) 1.1% loss
- Q. 74) Which of the following is a perfect cube?
 - 1) 10000

2) 243

3) 343

- 4) 270000
- Q. 75) $\left[\left(\frac{1}{2} \right)^{-1} + \left(\frac{2}{3} \right)^2 \left(\frac{3}{4} \right)^0 \right]^{-2} = ?$
 - 1) $\frac{81}{484}$

 $2)\frac{81}{169}$

 $3)\frac{169}{81}$

4) $\frac{16}{81}$

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- Q. 76) Which of the following is the difference between the squares of 21 and 22?
 - 1) 21

2) 22

3) 42

- 4) 43
- Q. 77) Which of the following is the value of $(x + \frac{1}{x})^2$?
 - 1) $x^2 + \frac{1}{x^2}$

 $2)x^2 - \frac{1}{x^2}$

3) $x^2 + \frac{1}{x^2} + 2$

- 4) $x^2 + \frac{1}{x^2} + 2x$
- Q. 78) What is the value of $5x^{25} 3x^{32} + 2x^{-12}$ at x = 1 ?
 - 1) 0

2) 2

3) 4

- 4) None of these
- Q. 79) Which of the following is equal to $x^3 225x$?
 - 1) x(1-15x)(1+15x)
- 2) x(x-15)(x+15)
- 3) x(1-15x)(1-15x)
- 4) x(x-15)(x-15)
- Q. 80) Two years ago Ayush was 'x' years old. Then, what was his age 5 years ago?
 - 1) x + 5

2) x - 7

3) x - 5

- 4) x 3
- Q. 81) $(4pq + 3q)^2 (4pq 3q)^2 = ?$
 - 1) $48pq^2$

 $2)9q^{2}$

3) $16p^2q^2$

- 4) None of these
- Q. 82) $(\frac{x}{y})^2 \times (\frac{y}{z})^3 \times (\frac{z}{x})^4 = ?$
 - 1) $\frac{x^2}{yz}$

2) $\frac{yz}{x^2}$

3) $\frac{xy}{z^2}$

- 4) $\frac{xz}{y^2}$
- Q. 83) If $(5^2)^m = (5^{-7})^2$, then the value of m is _____.
 - 1)5

2) - 2

3) - 7

4) 2

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- Q. 84) If $(\frac{4}{5})^{13} \div (\frac{4}{5})^{19} = (\frac{5}{4})^x$, then the value of x is _____. 1) 13 2) 19 4) - 63)6 Q. 85) If the dimensions of a room are 2m, 3m and 4m, then which of the following is the number of cubes of size $\frac{1}{2}$ m $\times \frac{1}{3}$ m $\times \frac{1}{4}$ m, which can be placed in the room? 1) 960 2) 672 3) 676 4) 576 Q. 86) When the height is doubled, the curved surface area of a cylinder increases by _____ times. 1) 2 2) 4 4) 8 3)6 Q. 87) The measure of interior angle of a regular pentagon is 2) 720° 1) 180° 4) 108° 3) 360° Q. 88) Adjacent angles of a parallelogram are 2x and 3x. What are the measures of the adjacent angles ? 2) 36° and 72° 1) 72° and 108° 4) 72° and 180° 3) 144° and 216° Q. 89) An oil tin measures 20 cm x 30 cm x 40 cm. If 1 m^2 of tin costs Rs. 25, then the cost of 10 such tins will be _____.
- - 1) Rs. 13

2) Rs. 6

3) Rs. 130

- 4) Rs. 60
- Q. 90) The radius of a roller is 35 m and length of the roller is 2m. How much area will the roller cover in 50 revolutions?
 - 1) 3850005cm²

 $2) 220m^2$

3) $200m^2$

4) 7700cm²

Good Luck

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National Means Cum Merit Scholarship Scheme Examination (NMMSSE) 2018-19 Std.VIII

D.O.E 04-11-2018

Project Year : 201

ANSWER KEY

Part I: Mental Ability Test: (MAT)

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

ANSWER KEY

Part II : Scholastic Aptitude Test : (SAT)

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

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