

INTSO EDUCATION

APTITUDE TALENT SEARCH OLYMPIAD (ATSO) 2016 - 2017

STAGE - 1

TIME

: 60 min.

CLASS: X Max. Marks: 50

Instructions:

- *⇒ Fill the OMR sheet completely and carefully.*
- Each question carries one mark and has only one correct answer. ¹/₄ (one fourth) marks will be deducted for indicating incorrect response of each question.
- The question paper contains 50 questions to be answered in 60 minutes.

NUMBER SERIES:								
1.	0, 4, 18, 48, ? 1) 100	2) 150	3) 90	4) 110	[]		
2.	1, 4, 27, 64, ? 1) 3815	2) 3025	3) 3024	4) 3125]]		
3.	17, 29, 46, 49, 54, 103 1) 256	, 117, 125, ? 2) 242	3) 264	4) 278]]		
4.	2, 10, 26, 82, ? 1) 243	2) 244	3) 242	4) 256	[]		
NUN	MBER ANALOGY:		2					
5.	7:42::12:? 1)144	2) 132	3) 156	4) 128	[]		
6.	24 : 564 : : 28 : ? 1) 740	2) 750	3) 770	4) 740	[]		
7.	59:104::76:? 1)118	2) 128	3) 136	4) 146	[]		
8.	53 : 88 : : 47 : ? 1) 100	2) 125	3) 121	4) 169	[]		
LET	LETTER SERIES:							
9.	PXJQ, MUGN, JRDK 1) DLXE	X, GOAH, ? 2) DOYF	3) DMWE	4) DLYE	[]		
10.	BDG, PST, DFI, SVW 1) VWY	/, FHK, ? 2) VYY	3) VYZ	4) VYA	[]		
11.	QT, UX, YB, CF, ?	2) HJ	3) HK	4) GJ]]		
12.	ERO, FSP, HUR, KXI	U, ? 2) OEJ	3) OBY	4) OEI	[]		

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LET ' 13.	TER ANALOGY: MSR: NHI:: BJU:?					
13.	MSR · NHI · · BIII · ?					
	1) YPE	2) YPF	3) YQE	4) YQF	[]
14.	CMH: DOK:: VQS: 1) WSV	? 2) WRQ	3) WPV	4) WSX	[]
15.	KEN: XRA:: BSV: 1) OEJ	? 2) OEI	3) OFI	4) OFJ	[]
COD	OING AND DECODIN	G :				
16.	that code?	age, if MASTRO is code			writte [en in]
	1) BUPLIC	2) BUPICL	3) BUPCIL	4) BUPILC		
17.	In a certain code langu 1) 25	age, If APEX = 23 and 1 2) 30	MENB = 17, then what 3) 35	is the value of 3 4) 40	FOUR [?]
18.	If CAT is coded as BY 1) VAO	Q. Then how is WOR is 2) VNO	s written in that code ? 3) VRO	4) VMO	[]
NUN.	IBER GAME WITH	DIFFERENT OPERA	TIONS:			
19.	If $A\Delta B = \sqrt[3]{A} + \sqrt[3]{B} \cdot T$ 1) 21	Then $729\Delta 1728 = ?$ 2) 19	3) 23	4) 25	[]
20.	If 9@14 = 529, 7@18 1) 961	= 625. Then 13@ 17 = 2) 800	? 3) 900	4) 1600	[]
21.	If $5 + 7 = 47$ and $9 + 6$ 1) 60	= 69. Then 4 + 12 = ? 2) 64	3) 68	4) 72	[]
22.	If $6 \times 4 = 52$ and 7×8 1) 220	= 113. Then 2) 250	3) 270	4) 290	[]
CLO	CKS AND CALENDA	AR:	50			
23.	The next same calenda 1) 2022	r for the year 2017 is 2) 2023	3) 2028	4) 2025	[]
24.	Which day falls on No 1) Monday	vember 14 th , 1956 ? 2) Tuesday	3) Wednesday	4) Thursday	[]
25.	If a clock shows 3 hrs 2 1) 8:35	25 min in the mirror, who 2) 7 : 35	at is the actual time? 3) 9:35	4) 6 : 35	[]
26.	At what time between	6 and 7'O clock the two	hands of the clock form	s 90° ?	[]
	1) 6hr, $51\frac{2}{11}$ min	2) 6hr, $49\frac{1}{11}$ min	3) 6hr, $16\frac{4}{11}$ min	4) Both 2 and	3	
27.	Find the angle between	two hands of a clock at	4:45?		[]
	1) $112\frac{1}{2}$ °	2) $127\frac{1}{2}$ °	3) $125\frac{1}{2}$ °	4) $117\frac{1}{2}$ °		

SEA	TING ARRANGEMI	ENT AND BLOOD R	ELATIONS :				
28.		end. B is sitting immedia	a row facing towards not at t	_			
	1) A	2) E	3) Either E or A	4) Can not be o	detern	nined	
29.		_	I table. A is in between E ts of E. Who is opposite t 3) F		osite [to D,	
30.	Anil has a brother dee to bimal? 1) Son	pak. Anil is the son of p 2) Grand son	orem. Bimal is prem's fath 3) Brother	ner. How is deep 4) Grand fath	[lated]	
ARI	THMETICAL ABIL	ITY:					
31.	If p and q are natural numbers, $p: q = 2\frac{1}{2}: 5\frac{1}{2}$, then which of the following values cannot be						
	equal to (p + q)? 1) 48	2) 80	3) 75	4) 96	[]	
32.	If the compound ratio 1) 4.2	of a : 2 and 4 : 9 is equal 2) 5.4	al to 2:5, then what is th 3) 4.8	ne value of 3a? 4) 5.2	[]	
33.	$\sqrt[3]{45} \times \sqrt[3]{25} = ?$	33 /2	*.*		[]	
	1) 5 ³ √9	2) $5\sqrt[3]{3}$	3) 5∛6	4) $5\sqrt[3]{4}$			
34.	The total number of p 1) 90	rime factors of $55^{28} \times 10^{2}$ 2) 80	$0^9 \times 6^8$ is ? 3) 100	4) 110]]	
35.	What is the difference between the largest 3 digit and the smallest 3 digit number, the divisible by the largest two digit number? 1) 899 2) 900 3) 792 4) 846					both]	
36.		numbers is 108 and LCN 2) 2	M is 36 then find their Ho 3) 6	CF? 4)8	[]	
37.	Two numbers are in the 1) 6	ne ratio 3:5 and their L 2)8	CM is 60. Then, find the 3) 4	eir HCF ? 4) 2	[]	
38.	Find the largest amon	g $\sqrt[4]{6}, \sqrt{2}$ and $\sqrt[3]{4}$?			[]	
	1) $\sqrt[3]{4}$	2) $\sqrt[4]{6}$	3) $\sqrt{2}$	4) Can not be d	detern	nined	
39.	What percentage of 40 is equal to 20% of x?				[]	
	1) $\frac{x}{3}$	2) $\frac{x}{4}$	3) $\frac{x}{2}$	4) $\frac{x}{5}$			
40.	If $4^a = 1024$, then the 1) 16	value of 4 ^(a-2) is ? 2) 64	3) 256	4) 512	[]	
41.	If x% of y + y% of x = 1) 2	= p% of xy, then what is 2) 3	s 150% of p? 3) 4	4) 5]]	

42.		40% above the cost price ned. What is the discours 2) 40%	te. By selling the article at percent? 3) 30%	after allowing a 4) 25%	discou	ınt a
43.	If p% of q is equal to	r, what percent of r is p	?		[]
	1) $\frac{q^2}{100}$	2) $\frac{100}{q}$	3) $\frac{q}{100}$	4) $\frac{10000}{q}$		
44.			P after some months by a 4:3 after how many m 3) 6	_		After]
45.		ng partner, gets a share o	as and B invests Rs. 6000 of Rs. 2000, including an	•		
46.	40 persons can comple	ete a work in 40 days. 2	5 days after they start the complete the remaining 3) 20	work, 20 peopl	e have [left.
47.	-	be filled in 4 hours. If ta	3 hours. If both the taps ap B alone is opened then			
48.			24 km/hr. He covers the r I distance covered by hin 3) 240 km		6 houi	s by
49.	What is the least num 1) 173	ber which divides by 12 2) 183	2, 18, 20 and leaves rema 3) 163	ainder 3 in each 4) 193	case ?]
50.	A and B worked toge	ther and earned Rs. 630	0. If A completed $\frac{2^{th}}{5}$ of	the work, then	what is	s the
	share of B? (in rupee)		3) 342	4) 372	[]

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