

Instructions:

INTSO EDUCATION

APTITUDE TALENT SEARCH OLYMPIAD (ATSO) 2015 - 2016

STAGE - 1 TIME

: 60 min.

CLASS: X	Max. Marks: 50
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Fill the OMR sheet completely and carefully.

<i>₽</i>	•	s one mark and has only ontains 50 questions to	y one correct answer. No be answered in 60 minui	~	čs.			
Number Series								
1.	15, 10, 45, 20, 135, 30 1) 205	2) 40	3) 405	4) 50	[]		
2.	25, 49, 121, 169, 1) 196	2) 225	3) 256	4) 289	[]		
3.	5, 9, 18, 34, 59, 1) 90		3) 60	4) 85	[]		
4.	3, 6, 18, 90, 630, 1) 3780		3) 6930	4) 6300	[]		
Num	nber Analogy	12						
5.	64:512 : : 81 : 1) 500	2) 216	3) 729	4) 289	[]		
6.	20:401:: 30: 1)301	2) 900	3) 400	4) 901	[]		
7.	74:33::63: 1)27	2) 37 INT	3) 47	4) 57	[]		
8.	25:37::31: 1)47	2) 45	3) 35	4) 24	[]		
Lette	Letter Series							
9.	CDE, PQR, GHI, TUY 1) UVW	-:	3) XYZ	4) WXY	[]		
10.	PN, SQ, WU, BZ, 1) E	F. 2) F	3) G	4) H	[]		
11.	BOY, EQZ, HSA, KU 1) NWC	JB, 2) MWC	3) OWC	4) NXC	[]		
12.	LUDK, HQZG, DMV 1) VMVC	C, ZIRY, 2) VEOU	3) VENV	4) VENU	[]		
Letter Analogy								
13.	UAE : FZV : : IOU : _ 1) VBF	2) TNM	3) RLF	4) LRF	[]		

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14.	EDC : RQP : : KJI : 1) TUV	 2) XWV	3) VWX	4) WXY	[]	
15.	BDE : CHN : : KFX : 1) LJG	 2) KLG	3) GLH	4) HGJ	[]	
Codi	ing & decoding						
16.	In a certain code langu 1) XEREISCE	uage, if CAMPUS is coo 2) RXEECIRE	ded as SUPMAC , then 3) ESICREXE	EXERCISE is 4) EIRXESC		as	
17.	•	guage, if Hyderabad is caphich city is the capital of 2) Hyderabad			Chenna [ai is	
18.	In a certain code langua GREEN ?	age, if the value of PINK	K = 50 and RED = 27, the	en the what is th	ne valu	ie of	
	1) 48	2) 28	3) 49	4) 25			
Num	nber game with differen	nt operations :					
19.	If 3 x 6 = 6, 7 x 8 = 12 1) 61	2, then what is the value (2) 62	of 52 × 13 ? 3) 65	4) 85	[]	
20.	If $6 + 7 = 55$ and $9 + 3$ 1) 28	3 = 39, then what is the v 2) 11	value of 7 + 4? 3) 33	4) 39	[]	
21.	If 6@7 = 169, 7@8 = 1 1) 864	225, then 15@16 = 2) 1061	3) 932	4) 961	[]	
22.	If $A \Delta B = \sqrt{A} + \sqrt{B}$,	then 36 \triangle 289 =			[]	
	1) 23	2) 24	3) 11	4) 25			
Cloc	cks & Calenders						
23.	The calendar for the year 1) 2007	ear 2001 is the same as v 2) 1996		4) 2008	[]	
24.	If a wall clock shows 4 1) 7hrs 25 min	4 hrs 40 min in the mirror 2) 2hrs 40min	r, what is the actual time 3) 8hrs 10min	e? 4) 7hrs 20 min	[n]	
25.	When the time is two 2 1) 105°	2hrs 30 min find the angle 2) 110°	le between the hands of a 3) 115°	a clock. 4) 120°	[]	
26.	When the hours hand is time	s in between 4 & 5 and th	ne angle between the han	ds is 40° find th	ne poss	sible]	
	1) 4 hours 29 $\frac{1}{11}$ min	2) 4 hours 14 $\frac{2}{11}$ min	3) both 1 and 2	4) none			
27.	What day of the week 1) Monday	was 26 January 1950. 2) Tuesday	3) Wednesday	4) Thursday	[]	
Seat	Seating arrangement and Blood Relations						
28.	i) P comes after Q and iii) Q comes before R,	T and U arrive	ii) S comes after T, but		[]	
	Which of the following 1) P	g is the first bus to arrive 2) O	e at the bus depot?	4) U			

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29.	Six persons _A R C	D F and F are sitting i	n a row, facing north. Th	ree nerconc ar	sittii	no in
<i>2)</i> .	-	_	ween C and F. If only on	-		_
	1) E	2) A	3) C	4) Cannot be o	leterm	nined
30.	How is A's mother's br 1) Sister	other's wife's mother-ir 2) Mother-in-law	n-law's only daughter rela 3) Daughter in law	ated to A? 4) Mother	[]
Arit	hmetical Ability					
31.		umbers, p:q = $3\frac{1}{2}$: $4\frac{1}{4}$, the	nen which of the following	ng values canno	ot be e	equal
	to (p + q) ? 1) 93	2) 217	3) 123	4) 279	Ĺ	J
32.	If the compound ratio	of a:3 and 5:6 is equal to	o 35 : 36, then what is the	e value of 2a?	[]
	1) 7	2) 9	3) 18	4) 3.5		
33.	$\sqrt[3]{105} \times \sqrt[3]{147} =$				[]
	1) $7\sqrt[3]{15}$	2) 7 ³ √45	3) $7\sqrt{135}$	4) $7\sqrt{45}$		
34.	The total number of pr	rime factors of $6^{41} \times 7^{42} \times 8$	3 ⁴³ is		[]
	1) 126	2) 253	3) 2	4) 3		
35.		between the largest four by the largest two digit r	r digit number and the sr	nallest four dig	it nun	nber,
	1) 8910	2) 9909	3) 8509	4) 9899	L	J
36.			and q are their LCM an	d HCF respect	ively,	then
	which of the following 1) ab = pq	g in not true?	2) ab is divisible by p]
	3) $(a+b)$ is divisible by	p	4) (a+b) is divisible by	q		
37.			CF is one. One number i		other i	s 37.
	What is the value of th 1) 6		are consecutive positive	_	[]
38.	•	and q is an odd number	then always	7)0	[1
50.	1) (p+1) is an even nur	-	2) pq is an odd number	ſ	L	J
	3) $q(p+1)$ is an odd num		4) $p(q+1)$ is an even nu	ımber.		
39.	`	g is the greatest number	?		[]
	$\sqrt[3]{10}$; $\sqrt[4]{15}$; $\sqrt[5]{25}$; $\sqrt[6]{30}$					
	1) $\sqrt[3]{10}$	2) $\sqrt[4]{15}$	3) $\sqrt[5]{25}$	4) ∜30		
40.	What percentage of 25	is equal to 10% of x?			[]
	1) $\frac{x}{10}$	2) $\frac{x}{4}$	$3) \frac{2x}{5}$	$4) \; \frac{5x}{2}$		
41.	If p% of $q+q\%$ of $p=2$	x% of pq, then what is 2	200% of x?		[]
	1) pq	2) 2pq	3) 2	4) 4		
42.	42. A toy is marked 20% above the cost price. By selling the article after allowing a discount a prof 10% is obtained. What is the discount percent approximately?				orofit 1	
	1) 8%	2) 9%	3) 10%	4) 12%	L	J

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43.	The cost price of article A is 20% more then the selling price of article B. On selling, there is a 100% profit on first article and 50% loss on second article. What is the profit percentage on selling both the articles?				
	1) 50%	2) 25%	3) 12.5%	4) 6.25%	LJ
44.		th Rs. 80000. Q joined P re the profits in the ratio 2) 6		_	
45.		s Rs. 10000 for 9 months ag partner, gets a share of ? (in Rupees) 2) 5000		•	
46.	Twenty five persons ca	an complete a work in 250 days can be remaining 2) 10	days. Ten days after they	start the work,	ten people
47.	neously, the tank can complete it's work	ne third of a tank in two be filled in 9 hours. If	tap B is opened then in	n how many ho	
	1) 6	2) 18	3) 6½	4) 4½	
48.		m A to B at a speed of 45 d by 20% . What is the to			five hours []
	1) 270	2) 360	3) 540	4) 480	
49.	What is the least numb 1) 182	per which when divided 2) 122	by 18, 24, 30 leaves ren 3) 242	nainder 2 in eac 4) 362	h case ?
50.	A and B worked together share of B? (in rupees 1) 180	her and earned Rs. 240.) 2) 200	If A completed 1/6 th of 3) 160	the work, then v	what is the
		INT	50		

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