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ARYABHATTA INTER-SCHOOL MATHS COMPETITION 2007

SUMMER FIELDS SCHOOL (JUNIOR) CLASS V

Time allowed: 2 hrs.

M.M.: 100

GENERAL INSTRUCTIONS:

- 1. Participant should not write his/her name on the questionnaire.
- 2. Write your Roll no. on all pages of the paper.
- 3. All questions are compulsory.
- Read questions carefully, think twice before you write the answer.
 Another copy of the questionnaire will not be provided.
- 5. Marks are indicated at the end of each question.
- 6. Write the answer within the prescribed limited space.
- 7. Do your rough work on a sheet pinned up with the questionnaire.
- 8. Use of eraser and overwriting is not allowed.

PART - I : ARITHMETIC

Make the largest and the smallest number using the digits of the first five multiples of eight. Write the difference of the numbers in:
Indian system
International system

	ROLL NO	
Q.2	Use the correct symbol < or >.	
	A number which is between $\frac{1}{2}$ and $\frac{3}{5}$, its reciprocal is than 1.	(2)
Q.3	Number of halves in 14.5 is =	(2)
Q.4	Dev exchanges 5 indian stamps for 3 foreign stamps. If he wants to get 15 foreign stamps the number of Indian stamps he should exchange is	(2)
Q.5	The product of two co primes is 132. Their L.C.M is	(2)
Q.6	Take away $\frac{1}{100}$ ten times from 1 and you are left with	(2)
Q.7	Place arithmetical symbols in between these numbers to make the total 1 gross. 6 6 6 6 6 6 6 = 1 gross	(2)
Q.8	17kg 8hg 9dag 7g 4dg 3cg 6mg ÷ 36 =kg	(2)
Q.9	Difference in kilometer between 0.02km and 85m is	
Q.10	Ten hundredth less than 5.2 =	(2)
Q.11	A carpenter worked from 9.30am to 6.30 pm. He was paid Rs.34.50 per hour. He spent Rs.25.40 on his lunch. Money left with him is	(2)
Q.12	At a Christmas sale 20% discount is given on each dress. The amount paid for six dresses costing Rs.300 each will be	(2)
Q.13	Time taken to cover a distance of $18\frac{2}{5}$ m at a speed of $18\frac{2}{5}$ cm/sec is	(2)

(2)

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	27th February			, then the day that fa	(2)		
Q.15	The least numb	er that s	hould be subtract	ed from 423 to make	e it a multiple		
	of 12, 14, 1	5 is	un et hab yak att		(3)		
Q.16				21Kg of fish. He so s. 15.75, the money	charged for IKg		
Q.17	Look at the given	ven time	table and answer	the following quest	ions. (3)		
	Station		Train 1	Train 2	Train 3		
	Burgerking Junction	a b	15.47 16.02	18.19 18.35	11.54 12.15		
	PizzaTown	a b	19.45 20.07	19.55 20:20	15.27 15.45		
	Chocolaty Place	a b	00.25 00.42	23.55	19.35 20.10		
	Cola city	a	01.30	01.25	21.07		
(1)	Which is the fastest train between Burgerking Junction and Cola city?						
(2)	Which is the fastest train between Chocolaty Place and Pizza Town?						
(3)	Which train stops for the shortest time at Pizza Town?						
(4)	Which is the	fastest ti		gerking Junction and			

Q.18 Rohan has 60 sweets. Manik has half as many sweets as Rohan. Dhruv has twice as many sweets as Rohan. The number of sweets Dhruv must give to each of them so that all three will have the same number of sweets is)
	(3)
Q.19 Use digits 0 to 9 without repeating any digit to make fractions equal to $\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{12}$	
* 100 - 100	(3)
	(-)
Q.20 Mrs. Roy bought $\frac{3}{4}$ kg of chocolate. She used $\frac{1}{6}$ of it to make a cake and $\frac{3}{5}$ of the remainder to make some cookies. She shared the remaining chocolate	
equally among her two children. Quantity of chocolate each child got =gm	(3)
Q.21 Simplify	
XIICDXCI + LXIV + VIII - DCCXLII =	(3)
Q.22 The average weight of 15 students is 55kg. The average weight of first eight students is 53kg and the average weight of last eight students is 57kg. The weight of the seventh child iskg.	
	(3)
Q.23 100Kg of sweets are distributed. If each child gets 0.5% of the total sweets then the number of children are	(3)

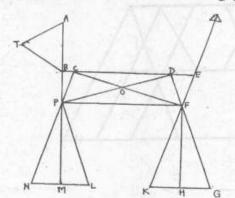
ROLL NO.....

3 5_9 6_8

Q.24 Fill in the blanks so as to make the number divisible by 4, 6, 8, 9, 11.

PART - II : GEOMETRY

Q.1 Look at the given figure and answer the following questions:



1)	Adjacent angle of ∠ ABT is _		
		Wroten and son water no sond send	(1)
			(1)

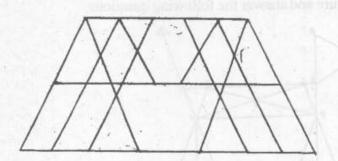
7)
$$\angle$$
 BPC = ____(vertical angle). (1)

Q.2	Rearrange these nine	line segments to make four quadrilaterals.	
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	1 198	PACK.		
is bloom	CORP. PRINTER	Middenb Sy		(2)
_				1-

(2)

Q.3 Look at the figure and count the number of trapeziums

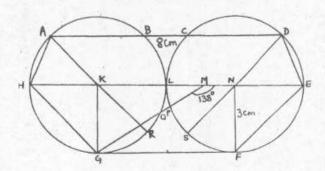


Number of trapeziums is ____ (3)

Q.4 Write True or False for the following:

- 1) An angle $\frac{2}{3}$ of its complement measures 36°.
- 2) Two acute angles can form a linear pair.
- 3) All chords of a circle are of the same length.
- 4) Infinite number of radii can be drawn in a circle.
- 5) If the sum of two angles of a triangle is 90°, it is a right angled triangle.____
- 6) Supplementary angles are never adjacent.
- 7) Two lines perpendicular to the same line are parallel to each other.
- 8) If two adjacent sides of a quadrilateral are equal, it is called a rhombus.____
- 9) If the sides of a square are doubled, its area would also double. _____
- 10) A right triangle maybe isosceles. (10)

Q.5 Look at the given figure and answer the following questions.



- 1) Number of radii. _____ (1)
- 2) Number of chords. ____ (1)
- 3) Name an arc. _____ (1)
- 4) Number of diameters. _____ (1)
- 5) Measure of ∠ KGM _____ (2)
- 6) Perimeter of ADNK_____ (2)
- 7) Shade a minor segment. (1)

Q.6 Fill in the blanks:

- 1) The total length of the edges of the cube is 36cm. Its total surface area is _____. (2)
- The measures of seven angles of an octagon are 140°, 112°, 153°, 136°, 165°, 122°, 139°. The measure of the eighth angle is ______.
- 3) The circumference of a circle whose diameter is 3.5cm is _____. (2)