

ROLL NO.....

ARYABHATTA INTER-SCHOOL MATHS COMPETITION 2006

**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.
4. 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

Q.1 To $33\frac{1}{3}\%$ of $\frac{1}{3}$ of the predecessor of smallest ten digit number add successor of the smallest number formed by the digits of first five composite numbers, the number you get is _____ (3)

Q.2 Split 95 as a product of two primes _____ (2)

ROLL NO.....

Q.3 Double the whole part and halve the decimal part of 5.05 and you get _____ (2)

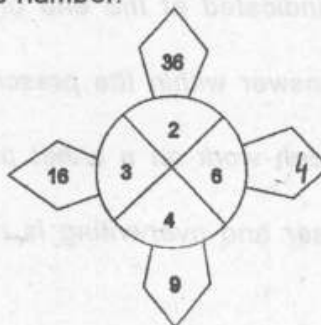
Q.4 Arrange in ascending order 1.11, 1.001, 1.01, 1.00, 1.011.
_____, _____, _____, _____, _____ (2)

Q.5 The product of the sum and the difference of 1 and $\frac{1}{2}$ is _____ (2)

Q.6 Mini can Knit a scarf 30cm by 28cm from 10.15 am to 1.15 pm.
In 1 hr. she can knit 28 cm². (2)

Q.7 0.5 is $12\frac{1}{2}\%$ of _____ (2)

Q.8 Fill in the blank with suitable number.



Q.9 In the number 4685.029 the value of digit 4 is _____ times the value of digit 2. (2)

Q.10 1 litre of full fat milk contains .150 ml of fat. If Niyati's family's weekly consumption of milk is 10 litres, the quantity of fat in it is _____ (2)

Q.11 Complete the series.
 $1\frac{1}{4}$, 3.75, $7\frac{1}{2}$, 11.25, _____ (2)

Q.12 Two multiplied by one less than the difference of 19 and 6 is _____ (2)

Q.13 A sewing machine stitches 4000 stitches per decametre. The number of stitches it would stitch per decimetre is _____ (2)

Q.14 The average of 4, 7, 9, 14 and 11 is 9. (2)

Q.15 A basket containing 144 oranges was bought to a school for distribution. $24\frac{2}{3}\%$ were found rotten. The number of oranges left in the basket if half of the oranges were distributed is 48. (3)

Q.16 Circle the Roman numerals which do not make any sense.

XCII, XLVIX, XIX, XXIL, XDI, XXXIII, CXXIV, DXVII (3)

Q.17 Average age of five children is 8 yrs 4 months. If the average age of four children is 7 yrs. 10 months, the age of fifth child is _____ (3)

Q.18 A box and its contents weigh 19.6 kg. The empty box weighs 1.85 kg. The weight of the contents in six such boxes is _____ (3)

Q.19 Vinny bought 5 ice creams at Rs.22.50 each, 4 sweets at 0.85 each if the total amount spent was $\frac{2^{\text{th}}}{5}$ of her money, then the amount of money she had in the beginning was _____ (3)

Q.20 Car parking attendant at a showroom charges Rs.3 for first hour and Rs.2.50 for every extra hour or part there of . The amount Dev must pay for parking his car for 2 hr. 50 min is _____ (3)

Q.21 Fill in the missing digits so as to make the number divisible by

2, 3, 4, 6, 8, 9, 11

3 7 7 9 4 2 4 (3)

Q.22 A shopkeeper packed 9 boxes of shirts. 4 boxes contained 58 shirts each, 2 boxes together contained 100 shirts and each of the remaining boxes contained 6 more shirts than each of the first 4 boxes. The number of total shirts packed was _____ (3)

Q.23 Look at the given time table and answer the following questions.

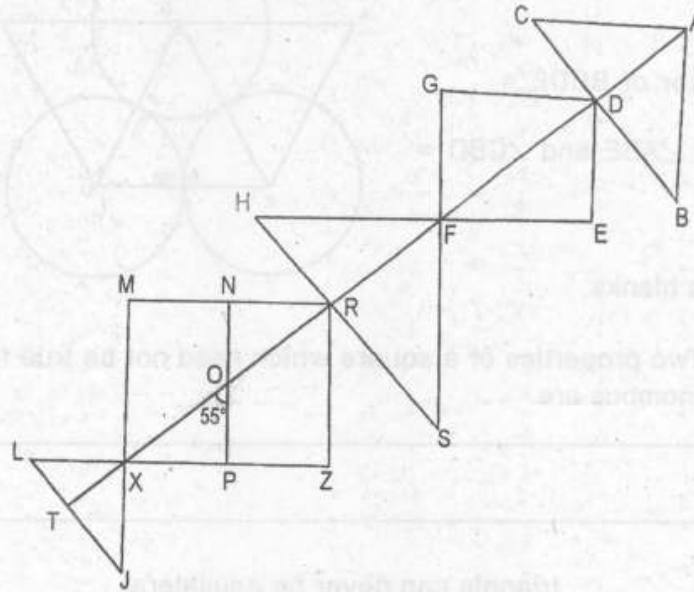
Station		Train 1	Train 2	Train 3
Spidey's Heaven	a	10.25	9.10	12.40
	d.	10.35	9.17	12.59
Pokemon Town	a	13.05	10.30	14.15
	d	13.32	10.48	14.18
Ninja Hyde out	a	16.21	14.54	17.15
	d	16.28	15.05	17.20
Bey blade Town	a	18.10	17.24	18.50
	d.	18.25	17.30	18.55

- (1) Which is the fastest train between spidey's Heaven and Beyblade Town? Train 3
- (2) Which train takes the shortest time between pokemon town and Ninja Hyde out? Train 2
- (3) If a person has to reach Ninja Hyde out by 3'o clock. Which train should he take from spidey's Heaven? Train 3
- (4) From Ninja Hyde out to Beyblade town which is the faster train between train 1 and Train 2 ? Train d) (4)

Q.24 The number nearest to 10000 which is exactly divisible by each of these 2,3, 4, 5, 6 and 7 is _____ (3)

PART 2 : GEOMETRY.

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



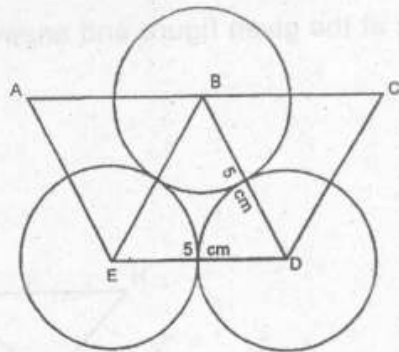
Name _____

- (1) Adjacent angle of $\angle GDE$ _____ (1)
- (2) Supplement of $\angle RFG$ _____ (1)
- (3) Complement of $\angle ORZ$ _____ (1)
- (4) Linear pair of $\angle ORZ$ _____ (1)
- (5) Vertically opposite angle to $\angle ADB$ _____ (1)
- (6) HS 'll _____ (1)
- (7) $ON \perp$ _____ (1)
- (8) No. of right angles _____ (1)
- (9) Number of acute angles _____ (1)
- (10) Measure of $\angle TXJ$ _____ (2)
- (11) Measure of $\angle ORZ$ _____ (2)

Q.2 Look at the figure and answer the following questions.

Perimeter of BCDE =

Sum of $\angle ABE$ and $\angle CBD =$



(3)

Q.3 Fill in the blanks.

(i) Two properties of a square which need not be true for a rhombus are.

a. _____ (1)

b. _____ (1)

(ii) A _____ triangle can never be equilateral. (1)

(iii) In a _____ only two sides are parallel to each other. (1)

(iv) Sum of any two non-opposite angles of a parallelogram is _____ (1)

(v) In a triangle each of the three angles can not be less than _____ (1)

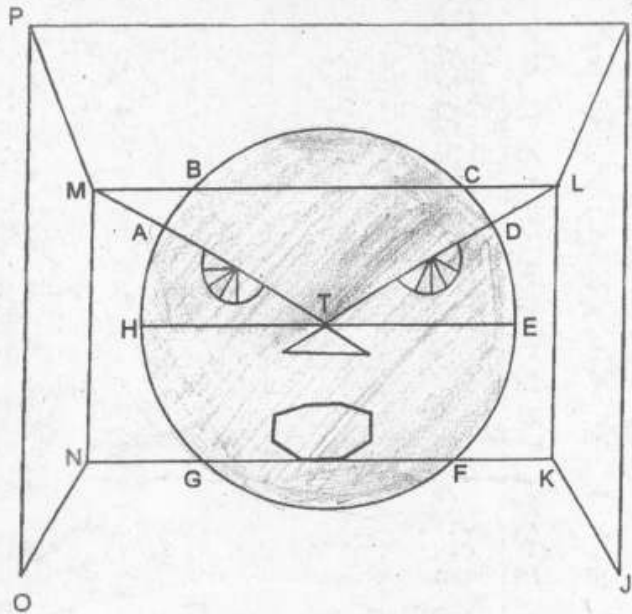
(vi) The area of a square piece of paper is 144 sq. cm. If it is cut into 16 equal triangles then the area of each triangle is _____ (1)

(vii) The measure of reflex angle formed by the hands of a clock at 3.35 pm is _____ (2)

(viii) Longest line segment that can be drawn in a circle is called its _____ (1)

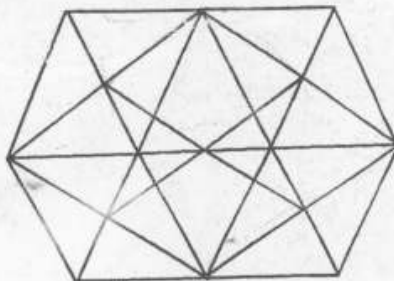
(ix) The measure of angles of a seven sided figure are 130° , 105° , 155° , 144° , 162° , 121° . The measure of the seventh angle is _____ (2)

Q.4 Look at the given figure and answer the following questions.



- (i) Number of radii _____ (1)
- (ii) Number of chords _____ (1)
- (iii) Name an arc _____ (1)
- (iv) Name the longest chord _____ (1)
- (v) Sum of the angles in the mouth of the figure _____ (1)
- (vi) Sum of the angles in the eyes and nose _____ (1)
- (vii) Name an octagon _____ (2)
- (viii) Shade a major segment _____ (2)

Q.5 Look at the given figure and count the number of rhombus.



Number of rhombuses is 13 (2)