

ALL INDIA SAINIK SCHOOL ENTRANCE EXAMINATION 2012
PAPER – I MATHEMATICS AND LANGUAGE ABILITY CLASS VI

Time : 2 hrs

Max. Marks : 200

Instructions: 1. This question paper contains two parts and you have to answer all questions in both the parts.

2. Part 'A' - Mathematical knowledge test has three sections containing 30 questions. Q. Nos 1 to 10 carry 2 marks each, Q Nos 11 to 20 carry 3 marks each and Q Nos 21 to 30 carry 5 marks each.

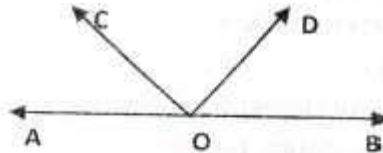
3. Part 'B' - Language Ability Test contains 9 questions. Q. No. 1 and 2 carry 15 marks each and remaining questions carry 10 marks each. In this part you can write your answers in any one of the chosen language only.

4. Write your answer in Blue/Black ink only. Do not use pencil. 5. All Rough Works is to be done at space provided.

PART 'A' MATHEMATICS

SECTION : I MAX MARKS : 100 EACH QUESTION CARRIES TWO MARKS

1. Find the largest and smallest (least) numbers which can be formed by 5,0,7,4.
2. The number 4318 should be divided by which number so that the quotient is 17?
3. The side of a square room is 12 m. Find the cost of carpeting the room at the rate of Rs. 5 per sq metre.
4. Find the value: $1\frac{1}{2} + 2\frac{2}{3} - \frac{1}{6}$
5. The cost of a dozen pens is Rs. 90. Find the cost of 20 such pens.
6. The marks obtained by a student in five examinations are 90,92,93,95 and 90. Find his average marks.
7. What is 15% of Rs. 500?
8. Change 40 m/sec into km/hour
9. In the given figure, AOB is a straight line. If $\angle AOC + \angle BOD = 85^\circ$, then find the measure of $\angle COD$



10. The side of a square is 25 m. What is the Perimeter of the square.
11. Simplify : $1 \div \left\{ \frac{1}{2} + \frac{1}{3} + \frac{1}{6} \div \left(\frac{3}{4} - \frac{1}{3} \right) \right\}$
12. If 15 men can do a piece of work in 20 days, in how many days can 25 men finish the same work?
13. The radius of a circle is 7 cm. Find its Diameter, Area and Circumference.
14. Find the simple interest on Rs. 5,600/- at the rate of 5% per annum for a period of three years?
15. The LCM of two numbers is 630 and their HCF is 9. If one number is 90, then find out the other number.
16. In a school, 75% of the students are boys. If the number of girls is 420, find the number of boys in that school.
17. The angles of a triangles are in the ratio 1:2:3. Find the angles. Also write the type of the triangle.
18. Find the average of first ten counting numbers.
19. Find the square root of $5\frac{19}{25}$
20. The radius of a wheel is 35 cm. How much distance will it travel in 100 revolutions ?

SECTION : III (EACH QUESTION CARRIES FIVE MARKS)

21. A town population is 2,65,000, in which 40% are males, 30% females and rest are children. Find out the number of males, females and children in the town.
22. The average age of a class of 40 students is 18 years. When a teacher joins them, their average age becomes 19 years. Find the teachers age.
23. The angles of a triangle are in the ratio of 2:3:5. Find the angles of the triangle.
24. A man sold two radios at Rs. 924/- each. On one he gains 20% on another he loses 20%. How much does he gain or lose in the whole transaction ?
25. Find the area of the figure given below:

