

ALL INDIA SAINIK SCHOOL ENTRANCE EXAMINATION: 2013
PAPER I – MATHEMATICS AND LANGUAGE ABILITY
CLASS – VI

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, 11 to 20 carry 3 marks each and 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 our answers in any one of the chosen language only.
4. Write your answer in Blue / Black ink. **Do not use pencil.**
5. All Rough Work is to be done as space provided.
6. There are total 26 pages in the question paper.

PART – MATHEMATICS (Max. Marks : 100)

SECTION – I

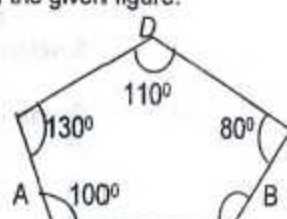
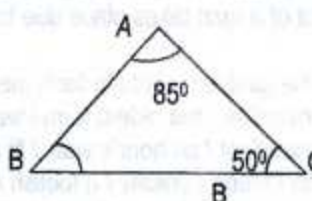
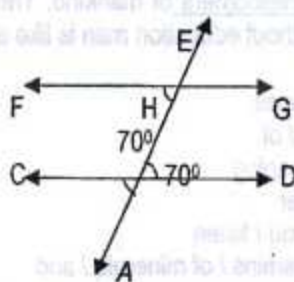
(Each question carries two marks)

1. Find the lowest common multiple of 2, 4 and 5.
2. What least number should be added to 322516 so that the result is exactly divisible by 543?
3. The weight of book is 1kg 350g. Find the weight of 25 boxes if each box contains 38 books.
4. Find the prime factors of 231.
5. Express 20 as percentage of 25.
6. Find the value of $12\frac{1}{5} + 6\frac{1}{10}$
7. Arrange the following fraction in descending order (Use of > symbol)
 $\frac{8}{9}, \frac{8}{11}, \frac{8}{15}, \frac{8}{13}$ and $\frac{8}{17}$
8. Find the HCF of 16, 24, 36
9. A shopkeeper sells a cycle for Rs. 575 and incurs a loss of 75. Find his loss percentage.
10. Ram slept at 9:30 PM and got up at 6:00 AM. How much time did he sleep?

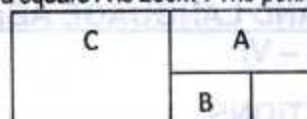
SECTION – II

(Each question carries three marks)

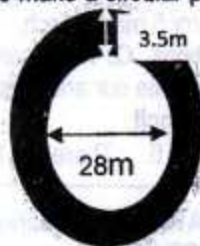
11. Simplify $10 - 2\frac{1}{3} \times 3 + 3\frac{3}{4} + 2\frac{1}{2}$
12. A train covers a distance of 560 Km at a speed of 70 Km per hour. Find the time taken by the train to cover this distance.
13. The age of 5 children is 13, 15, 11, 9 and 8 years respectively. Find their average age.
14. A carpet is 6.60m long and 3.75m broad. The carpet is surrounded by a lace. Find the length of the lace.
15. Find the measure of the angle ABC in each of the following figures using property of the given figure.



16. A container has 4 liters and 650ml of curd. In how many glasses each of 25ml capacity, can it be distributed?
17. A trader paid Rs 900/- as simple interest for 3 years on the sum of Rs 4500/- borrowed by him. Find the rate of interest.
18. Uma can finish a work in 18 days. The same work is finished by Manju in 9 days. In how many days both of them will finish the work while working together.
19. Amit plans to tile his kitchen floor with square tiles. Each side of the tile is 10 cm. his kitchen is 2.6m long and 1.7m wide. How many tiles will amit need?
20. Find the square of $2\frac{113}{256}$
21. A library has 1025 books in all. Out of this 205 books are on Science, 164 books are on philosophy. Find the % of (i) Science books (ii) Philosophy book.
22. Akbar gave $\frac{1}{3}$ of his savings to his wife $\frac{2}{5}$ to his son. Akbar's total saving was Rs 24,000/-. Find the balance amount left with akbar.
23. A block of wood is in the form of a cube. Its edge is 4m. How many rectangular pieces of size 20 cm x 10cm x 5cm can be cut from the block if there is no wastage of wood?
24. Explain and draw:- (a) Intersecting lines (b) Concurrent lines
25. The total age of three persons is 60 years. The ages are in proportion 1:2:3 What are their ages?
26. A shopkeeper bought 15 tables at the rate of Rs.50 each, 20 chairs at the rate of Rs 30 each. He spent Rs40 on transportation. He sold all the tables and all the chairs for Rs. 1300/-. Find his gain or loss.
27. The angles of a triangle are in the ratio of 2:3:5. Find the angles of the triangle. Also write the type of the triangle.
28. The area of a square A is 25cm². The perimeter of squar B is 12cm. What is the area and perimeter of square C?



29. Find the amount required to make a circular path around a garden as shown in the picture (shaded portion) if the rate is Rs 20 per sq metre.



30. The average age of 5 boys is 13 years. One more boy joins them and the average age become 12 years. Find the age of boy who joins last.

PART – B LANGUAGE ABILITY

1. Write 15 sentences on any one of the following topics- (15)
 My Ambition in life Or Importance of Games
2. Read the following passage carefully and answer the questions that follow:- (3x5=15)
 Newspaper, writing paper, printing paper, typing paper, bolting paper, carbon paper, wall paper, stamp paper – who can deny that paper is one of the most useful article in man's daily life? Yet man did not invent paper. The real inventors are the wasps who pile away tiny wood shavings from fence posts and tree trunks and chew them to a fine pulp from which they make the grey paper walls of their nests. Who were the first paper makers amongst men? Thousands of years ago the people of Egypt made a kind of paper from the pith of the papyrus plant, which grew in marshes near the river Nile. Papyrus paper was made in long rolls, and the books written on it were rolled up, not cut into pages. One ancient book which is to be seen in the British Museum in London is a hundred and twenty feet long.
 (a) Name three different types of paper which are used in daily life?
 (b) Who invented paper?
 (c) Who were the first paper makers amongst men?
 (d) How do the wasps make paper walls of their nests?
 (e) Where can an ancient book which is one hundred and twenty feet long be seen?
3. Make a sentence of your own for each underlined word given in the following passage. (2x5=10)
 (Do not copy any sentence from the given paragraph).
 Education plays a very important role in the development of mankind. The mental and intellectual development of a man takes place due to education. Without education man is like an Animal.
4. Rearrange the jumbled words to form meaningful sentences. (2x5=10)
 a) of exercise / the oldest form / walking / is / one / of
 b) is excellent / an hour's walk / fit and fine / for keeping
 c) than / friend / enemy / a foolish / a wise / is better
 d) to / doctor's advice / should / carefully / your / you / listen
 e) vegetables / fresh fruits / sources / and / are vitamins / of minerals / and
5. Give one word for the following:- (1x5=5)
 (a) One who makes furniture with wood _____
 (b) One who designs buildings _____
 (c) A place where wild animals are kept _____
 (d) A place where Christians pray _____
 (e) One who writes poems _____
6. Choose the correct word from the brackets and fill in the blanks: (1x5=5)
 (a) These boys have been _____ a great deal of noise. (make, makes, making)
 (b) Good children are _____ by all. (like, liked, liking)
 (c) The cattle _____ grazing in the field. (is, are, was)
 (d) It _____ heavily last month. (rain, raining, rained)
 (e) My teacher told me to _____ a letter. (write, wrote, written)
7. Use each of the word in separate sentences of your own to show the difference in the meaning of the words of the pairs given below:- (2x5=10)
 (a) male, mail (b) pray, prey (c) break, brake (d) pour, pore (e) buy, by
8. Write the meaning of the following idioms and make meaningful sentences (2x5=10)
 (a) Hand to hand (b) To and fro (c) Safe and sound (d) Of and on (e) By and by
9. You are Mohan, a resident of Janakpuri, Delhi. Write a letter to your friend requesting him to spend winter vacation with you. (10)
10. Look at the picture and write a story (at least 10 sentences) (10)