ALL INDIA SAINIK SCHOOL ENTRANCE EXAMINATION : 2015
PAPER I – MATHEMATICS AND LANGUAGE ABILITY
CLASS –VI

Time: 2 hrs   **Max Marks: 200**

Note:-

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

(2) Part "A" Mathematics 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 10 questions.. Q.1 and 2 carry 15 marks each and Q. Nos 5 to 8 carry 5 marks each. The 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.

PART 'A' MATHEMATICS
SECTION - I   **Max. Marks: 100**
(Each questions carries two marks)

Q.1 Estimate the difference of 879 and 338 to the nearest hundred.

Q.2 Write 15m as a percentage of 1000 km.

Q.3 Find LCM of 120, 210 and 225.

Q.4 Arrange $\frac{1}{3}, \frac{3}{10}, \frac{5}{6}, \frac{2}{5}$ in ascending order

Q.5 Find the sum of $1\frac{3}{5}$ and $2\frac{7}{10}$

Q.6 An aeroplane covers 1020 Kms in an hour. How much distance will it cover in $4\frac{1}{6}$ hours.

Q.7 Convert 131^0 F into Celsius scale.

Q.8 Convert 2222 hours into days and hours
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Q.9 One of the two equal angles of an Isosceles triangle measures 55^0. Find the measure of all the angles of triangle.

Q.10 Find the radius of a circle whose circumference is 79.2 cm. Given that $\pi = \frac{22}{7}$

SECTION – II
(Each questions carries three marks)

Q.11 Find the square numbers lying between 75 and 225.

Q.12 Simplify : 125 – 25 x 125 ÷ 25 + 25

Q.13. Sudha scored 23 marks out of 30 in marks and 29 out of 50 in Hindi. In which subject did she perform better and by what percentage ?

Q.14 Find the HCF of 902, 1394 and 3321.

Q.15 Jubaida took a loan of Rs. 4000/- on 12% annual interest. After 3 years how much money she will have to return?

Q.16   Find the Square root of

(a) $6\dfrac{9}{36}$ (b) $5\dfrac{41}{16}$

Q.17   A baby elephant drinks around 12 litre of milk every day. How much milk will it drink in two years ?

Q.18   John plans to tile his kitchen floor with square tiles. Each side of the tile is 10 cm. His kitchen is 2.2 M long and 1.8 M wide. How many tiles will John need ?

Q.19 There are 24 Laddoos in 1 Kg. How many Laddoos will be there in 8 Kg? If 16 Laddoos can packed in 1 box, how many boxes are needed to pack all the laddoos ?

Q.20   Find the mean of first ten even numbers.

SECTION – III
(Each question carries five marks)

Q.21   Annual Income of Rohan is Rs 6,00,000. He spends Rs 99,250 on food, Rs 36,750 on cloths and Rs 1,11,500 on other expenditures annually. What is his annual saving?   What % of his income does he save in a year ?

Q.22 (a)   Find the value of following angles :-

(i) $\angle BOC$ (ii) $\angle COD$

(b)   Find HCF of 20 and 70 by prime factorization method.

Q.23 **Simplify :**   0.2[3.5 – 0.3{2.5 + 1.3(3.6 + 1.4)}]

Q.24   Find out perimeter and area of the given diagram.

Q.25   How many stones of 0.50 M^2 can be fixed in a court yard of length15 M and width 10 M. if cost of fixing one stone is Rs 2.50, what will be expenditure on fixing stones in the courtyard?

Q.26   An alloy contains 15% Carbon, 25% Zinc and rest is Copper. In 60Kg alloy, find the quantity of each metal.

Q.27 Fill in the blanks :-

(a) $\frac{6}{21} = \frac{?}{7}$ (b) $.01 = \frac{1}{?}$ (c) Largest 7 digit number is _____

(d) Radius = $\frac{Diameter}{?}$ (e) In 75897, place value of 8 is _____

Q.28 The denominator of a fraction is greater than its numerator by 3. If 3 is subtracted from   the numerator and 2 is added to its denominator, the new number become $^1/_5$. Find the original   number.

Q.29 Out of 40 students of a class, 60% passed in first division, 30% in second division and remaining in third division. Find out the number of students in each category ?

Q.30 (a) A shopkeeper sells a box costing Rs. 900 giving 15% discount. Find out the sale price of the box ?

(b) The HCF and LCM of two number is 18 and 252 respectively. If one number is 126 find out another number?

PART 'B' : LANGUAGE ABILITY   Max Mark:100

Q.1   Write 15 sentences on anyone of the following topics :   (15)
My Friend   OR   Aim of my life

Q.2   Read the following passage carefully and answer the questions that follow :   (5x3=15)
        Florence Nightingale was born on the 15th May, 1820 at Florence in Italy and her parents called her after the name of the city where she was born. Her main ambition was to be a nurse and so she gave up all thoughts of marriage and personal happiness. She spent years visiting hospital after hospital. Day and night she visited
every bed in the hospital to see that no patient was   neglected and that all were as comfortable as possible. However hard she might have worked all day, every night she would take her lamp and move from bed to bed. 'The Lady with the Lamp' the
 soldiers called her and that is the name by which the world has remembered her ever since.

(a)   Where was Florence Nightingale born ?
(b)   Why her parents named her Florence Nightingale ?
(c)   Why Florence Nightingale was called 'The Lady with the Lamp' ?
(d)   Give opposite of 'comfortable' ?
(e)   What did she do every night with a lamp in her hand ?

Q.3   Make a sentence on your own for each underlined word given in the following passage. (Do not copy any sentence from the given paragraph)
**   (5x2=10)**
        People who live in regions **covered** with forests and surrounded by hills generally believe that the **desert** is a vast **stretch** of dry, hot and sandy land. But those who have studied it, find the desert quite beautiful. It is not entirely **uninhabited** either. A **variety** of people, animals and plants make the desert their home.

Q.4   Form meaningful sentences by rearranging the words in proper order:-
(5x2=10)

(a) a good / exercise / swimming / is
(b) Middle East / India / to / the / exporting / is / onions
(c) was / John / drinking / tea
(d) man/ a strong / Sardar Patel / was
(e) named / Diamond / had / Newton / little dog / a

Q.5   Give one word for the following :-   **(5x1=5)**
(a) One who knows everything ………………..
(b) A building in which monks live …………………
(c) A person whose profession is to keep accounts ……………..
(d) All the customs and beliefs of a society …………………………
(e) Eater of flesh …………………………………………..

Q.6   Choose the correct article (a, an or the) and fill in the blanks   (5x2=10)
(a) Here is _____book I borrowed from you yesterday.
(b) Jordan drives _____ Mazda.
(c) He goes to _____Delhi Golf Course on Sundays.
(d) James work as _____electrician.
(e) Raman sang _____ song.

Q.7   Use the given word in separate sentences of your own to show the difference in the meaning of the words of the pair given below :-   (5x2=10)
(a) Principal, Principle
(b) Cattle, Kettle
(c) whether, weather
(d) idle, idol
(e) Floor, Flour

Q.8   Change each of the following as directed :-   **(5x2=10)**

I met an old man   (Change into Future Continuous)
The driver stopped the train.   (Change into Passive Voice)
The sky grew dark.   (Change into negative sentence)
Mr Verma teaches us grammar.   (Change into Interrogative sentence)
Peter said, "Imran will not be playing the match."
                                                 (Change into Indirect sentence)

Q.9   Give the Antonym (opposite) of the following words :-   **(5x1=5)**
(a) Arrest _____
(b) Boon _____
(c) Heaven _____
(d) Grateful _____
(e) Bravery _____

Q.10 Write a letter to the Principal requesting him to organize an educational tour to Shimla.   **(10)**

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