

**SAINIK SCHOOL ENTRANCE EXAMINATION
MODEL QUESTIONS**

PART I - MATHEMATICS

CLASS VI

Marks : 200

SECTION I

(Each question carries 2 marks)

1. Find the volume of a cube whose one side is 7 cm.
2. Express 7.5% as a fraction in its lowest form:
3. Find $\frac{3}{5}$ of $3\frac{3}{4}$
4. Add: 0.5, 0.05, 0.5005 and 50
5. What should be added to 14.707 to get 17.404 ?
6. Find the number for the blanks to continue the series :
(a) 7, 8, 10, 13, 17,
- (b) 4, 16, 36, 64.....
7. Find the diameter of the circle whose circumference is 88 cm.
8. Arrange in the decreasing order : 6.23, 6.203, 6.32, 6.302
9. If 15 copies of a book cost Rs. 2595, what is the cost of 27 copies of that book ?
10. 1.8m of cloth is required for one shirt. How many such shirts can be made from a piece of cloth 27m long?

SECTION II

(Each question carries 3 marks)

11. Add $2\frac{1}{2} + 3\frac{2}{3} + 4\frac{3}{4}$

12. A man bought a cycle for Rs. 875, spent Rs. 75 on its repair and sold it at a profit of 12%. Find the selling price of the cycle ?

13. Rehman types 750 words in half an hour. How many words would he type in 7 minutes ?

14. Seeta scored 345 out of 500, while Geeta scored 408 out of 600. Whose performance is better?

15. Find the simple interest on Rs. 1200 for 3 years at 6.5% rate per annum ?

16. Write true or false :

a) The reciprocal of -1 is -1

b) $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \dots \dots \dots 7 \text{ times} = \frac{14}{21}$

c) Speed = Distance x Time

17. If the average of 1, 2, 7, x, 6 is 7, find the value of x ?

18. What should be added to $24.87 + 9.001 + 0.504 + 52.1$ to get 100 ?

19. A train covers a distance of 140 kms. in 3 hrs. and 30 mts. How much time would it take to cover a distance of 250 kms. running at the same speed ?

20. ABCD is a quadrilateral. $\angle A = 42^\circ$, $\angle B = 54^\circ$, $\angle C = x^\circ$ and $\angle D = x^\circ + 70^\circ$. Calculate $\angle C$ and $\angle D$

SECTION III

(Each question carries 5 marks)

21. A courtyard, 22m long and 14 m broad, is to be laid with bricks of length 25cm and breadth 16 cm. Find the number of bricks required.
22. A factory assembles 225 machines a day. In the year 2004, there were 72 holidays and the rest were all working days. How many machines will the factory assemble in that year ?

OR

In how many years, the simple interest on Rs.2600 at 8% per annum will be Rs.832 ?

23. Draw a circle of radius 3 cm, with the help of a compass. Name its centre as 'O'. Draw :
- (a) A radius OP
 - (b) A diameter LM
 - (c) A chord PQ
 - (d) An Arc AB
24. The cost of 7 chairs is the same as the cost of 3 tables. Find the cost of 3 chairs and 2 tables, if the cost of a chair is Rs. 1050
25. Average of 6 numbers is 47. Two of these numbers are 42 and 64. Find the average of the remaining 4 numbers.
26. What is the greatest number of 4 digits which is exactly divisible by 97 ?
27. Write True or False:
- a) Of all the chords of a circle, a diameter is the longest.
 - b) The distance of a point on the circle from the centre of the circle is the radius of the circle.
 - c) If a triangle has one right angle, the other two angles are acute.

d) The sum of any two angles of a triangle is always greater than the third angle.

(e) Complement of 45° is 45° .

28. A boat can carry 48 children or 16 men. How many children can go with 9 men in the same boat?

OR

Subtract the difference of 8.47 and 4.78 from the sum of 12.91 and 1.921.

29. Find the value of $x+y+2z+4$ if $x = 3\frac{1}{2}$, $y = 4\frac{1}{4}$

and $z = 2\frac{1}{3}$.

OR

Vijay bought 96 eggs at the rate of Rs. 18 per dozen. Out of them 6 were broken and could not be sold. He sold remaining eggs at such a price that he got a profit of Rs. 18. Find the selling price of an egg.

30. Simplify: $4\frac{1}{2} + 2\frac{1}{4} \times 1\frac{2}{9} - \frac{5}{6} \div 1\frac{2}{3}$

OR

A drum contains 210 litres of oil. $6\frac{2}{3}\%$ of oil has leaked out. How much oil (in litres) is left in the drum?

PART 'B' - LANGUAGE (100 marks)

1. Write 15 sentences on any ONE of the following topics :

- A journey by train
- The summer season

2. Read the following passage carefully and answer the questions that follow :

A great part of Arabia is desert. The Arabian desert has nothing but sand and rock. The Arabs who are not in the cities live in the desert all the the year round. They live in tents that can

be put up and taken out easily and quickly so that they can move from one oasis to another in search of grass and water for their cattle. These desert Arabs eat sweet figs and dates. These Arabs own the finest horses in the world. An Arab loves his horse almost as much as he loves his wife and children. The camel is much more useful to the Arab than his horse. A camel can carry as much as or more than what two horses can.

- a) Who live in the desert all the year round?
- b) Why do desert Arabs move from one oasis to another ?
- c) How does an Arab treat his horse?
- d) What do the desert Arabs eat?
- e) Which of the following statements is 'True'.
 - i) An Arabian horse can carry more than a camel.
 - ii) An Arabian horse can carry as much as a camel.
 - iii) An Arabian horse can carry less than what a camel can.

3. Construct a sentence of your own for each underlined word in the following passage :

The monsoon came with its bountiful supply of fresh and cool rain water. Autumn followed and the sky was wonderfully clear and the afternoons were pleasant.

- a)
- b)
- c)
- d)
- (e)

4. Form meaningful sentences by rearranging the words in the proper order :

- a) helps/active/Morning/walk/us/remain/
- b) in/What/ambition/is/life?/your/
- c) loved/all/Good/are/people/by/
- d) decorated/The/girls/the/floor/
- e) maids/go/ordered/to/out/The Queen/her/

5. Write appropriate word for each of the following descriptions

- a) The doctor who treats our teeth and gums.....
 - b) One who flies an aeroplane.....
 - c) One who makes wooden furniture and objects.....
 - d) A place where large collection of books are kept for reading
.....
 - e) A place where milk is collected and converted into butter
and cheese.....
6. Use each of the word in separate sentences of your own to show the difference in the meaning of each pair given below :
- a) break, brake
 - b) weight, wait
 - c) week, weak
 - d) heal, heel
 - e) price, prize
7. Choose the correct verb and fill in the blanks :
- a) What..... you looking at ? (is/are)
 - b) They did not..... their money. (spend/spent)
 - c) Our team..... played a good game. (have/has)
 - d) Honesty is..... on his face. (wrote/written)
 - e) Stone walls..... not make a prison. (do/does)
8. Change each of the following as directed :
- a) They have done better than us. (Change into Negative)
 - b) Coal is found in Bihar (Change into Interrogative)
 - c) The world does not need peace. (Change into Affirmative)
 - d) Our President loves children. (Change into Interrogative)
 - e) Anand played Chess. (Change into Negative)
9. Fill in the blanks with the words that are opposite in meaning to those given in the brackets :
- a) Being.....costs nothing (rude)
 - b) My doctor istoday. (early)
 - c) The river is (narrow)
 - d) We..... blessings from elders. (send)
 - e) I cannot.....my teacher. (remember)