

Pune Jilha, Brihanmumbai and Nashik Jilha Ganit Adhyapak Mandal

GANIT PRABHUTWA EXAMINATION

Date : 14.12.2014

Std. V

Total Marks : 100
Time : 12 noon to 3 p.m.

N.B. : Proper procedure and explanation is necessary.

1. Solve the following sub-questions. 10
 - a) Write the number 7,23,42,825 in word.
 - b) Write 3735 using Roman numerals.
 - c) Convert $\frac{125}{29}$ into fraction with integer.
 - d) Convert 2 kg 525 decigram into kg.
 - e) The radius of a circle is 6cm. What is the length of its longest chord?

2.
 - a) Write the sum of all three digit numbers formed using the digits 9, 8 and 5 once only. 3
 - b) Simplify $3\frac{7}{9} + 5\frac{2}{3} - 4\frac{5}{12}$ 3
 - c) Aruna required 1 hour to read 15 pages of a book. How much time will she need to read the whole book if it contains 220 pages? 4

3.
 - a) A journey consisted of 13.7 km of which 1250 m distance was covered. How many km distance was left yet to be covered? 3
 - b)
 - i) Write in the form of percentage : 3 out of 12. 3
 - ii) Find 8% of 625.
 - c) Which of $\frac{12}{16}$, $\frac{9}{15}$, $\frac{7}{14}$ is the largest fraction? 4

4.
 - a) A company sold some machines for Rs. 20,000. Cost price of machines was Rs. 18,000. If each machine was sold for Rs. 800, then – 3
 - i) How many machines were purchased?
 - ii) What was the cost price of each machine?
 - iii) What was the total profit?
 - b) The area of a square is 324 sq. decimeter. Find its side. 3
 - c) Kamalabai bought sugar for Rs. 80 when the rate of sugar was Rs. 32 per kg. She filled it equally in 10 bags. How much sugar did each of the bags contain? 4

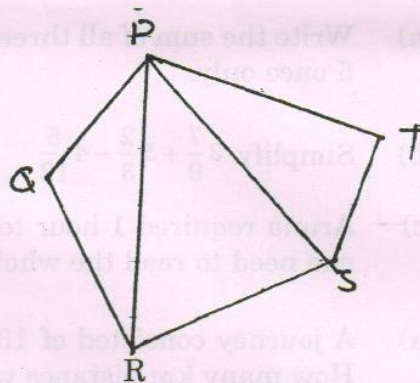
5. a) Simplify : $3\frac{1}{8} \div \frac{15}{16} \div \frac{3}{10}$ 3
- b) Write all multiples of 9 less than 60. 3
- c) In a grove there are 90 trees; some of mango, some of guava and some of chiku. Number of mango trees is 9 more than twice of chiku trees. If there are 21 guava trees, find the number of mango trees. 4

6. a) Abhay can keep the amount with him in the form of notes of Rs. 10 or Rs. 20 or Rs. 50 denomination. What is the least amount with him? 3
- b) Simplify $508.43 - (368.58 + 64.7)$ 3
- c) Ismail kept Rs. 5700 in a company as a deposit at 12 p.c.p.a. for a certain period. He received an amount of Rs. 9804 at the end of the period. For how many years did he keep the sum? 4

7. a) A staircase has 15 stairs. Each stair is 12 inch high. How many yards is the height of the staircase? (12 inches = 1 foot; 3 feet = 1 yard) 3
- b) Meena walked for 22 minutes to cross a 1430m. long bridge. Find her walking speed in km/hr. 3

- c) In the adjacent figure a pentagon and two of its diagonals are shown. 4

- i) In how many parts is the pentagon separated?
- ii) What is the shape of each part?
- iii) What is the sum of the measures of angles of a triangle?
- iv) What is the sum of the measures of all angles of the pentagon?

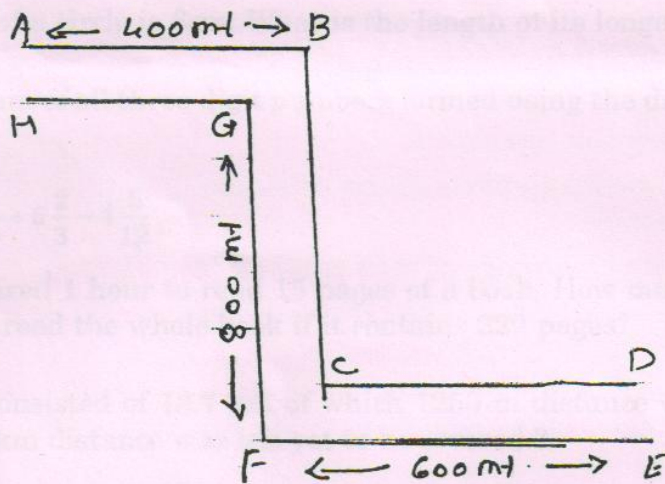


8. a) Draw a rectangle ABCD such that $l(AB) = 4.5$ cm. $l(BC) = 6$ cm. Draw its diagonal AC. Measure its length. 3
- b) Complete the magic square of addition and show the square in your answerbook. 3

13	8	12	1
		7	14
3			15
16	5		

- c) Find the four digit least number divisible by 4 and 11. 4

- Using the digits 3 and 5, write all four digit numbers such that each of the given digits will occur twice. Add all the numbers and find the prime factors of the sum.
- Two friends A and B started walking at 8 a.m. from a point with speeds 4 km per hour and 3 km per hour respectively. They had to touch a pole at a distance of 7 km and return immediately to the starting point. Find the time and distance from the starting point where they meet each other.
- Some students of Std. V went for a picnic. The teacher purchased 70 packets of three types of snacks for them, which were just enough if each student was given one sandwich packet; one samosa packet was to be shared between two students and one chikki packet was to be shared among four students. How many students went for the picnic?
- As shown in the figure below, the width of a road is 8m. Some measurements are given in the figure. All angles are right angles. Find the number of square concrete blocks, each measuring $2\text{m} \times 2\text{m}$, to cover the road



- Mangoes are sold at the rate of Rs. 400 per dozen and chikus at the rate of Rs. 20 for 3. Two merchants exchanges some mangoes and chikus. Find the number of chikus to be exchanged for 100 mangoes.