Brihanmumbai Ganit Adhyapak Mandal, Pune Jilha Ganit Adhyapak Mandal and Ganit Adhyayan Adhyapan Vikasan Sanstha, Nashik

GANIT PRABHUTWA EXAMINATION (Level- 1) Std. V

Date - 18-12-2022   Time: 3 Hours   Total Marks: 100

N.B. Proper procedure and explanation necessary for Q. 2 to Q. 6.

Q. 1 A) Rewrite the statements using appropriate option given below each question.   [10]

1) The number "ten lakh five hundred" is written as ---.

   A) 105000   B) 1000500   C) 100500   D) 10500

2) If 20 labourers take 40 days to build a house, --- days will 10 labourers take for the same work.

   A) 10   B) 20   C) 80   D) 40

3) The number $4\frac{17}{18}$ can be written as ---.

   A) $\frac{72}{18}$ B) $\frac{89}{18}$ C) $\frac{85}{18}$ D) $\frac{39}{18}$

4) Out of 0, 1, 2 and 3, the number ___ is an odd prime number.

   A) 1 .   B) 2   C) 3   D) 0

5) 90030 = --- tens.

   A) 9003   B) 9030   C) 90030   D) 93

6) The decimal form of $\frac{37}{1000}$ = ---.

   A) 0.037   B) 0.37   C) 0.0037   D) 0.370

7) The diameter of a circle is 7.2 cm, so the radius of that circle is --- cm.

   A) 7.2   B) 14.4   C) 3.6   D) None of these

8) 75% of 172 = ---.

   A) 43   B) 129   C) 120   D)12900

9) The digit in place of # in the number 346#9 should be --- if the number is to be divisible by 9.

   A) 7   B) 6   C) 2   D) 5

10) If the price of 15 litres of milk is Rs. 930, then the price of half litre of milk is ---.

A) Rs. 64   B) Rs. 62   C) Rs. 31   D) Rs.124

Q. 1 B) Write the answers only. [10]

1) Write all divisors of 77.

2) Convert in decimal system, simplify and write the answer in Roman numerals: XIV + VII

3) How many days make 43200 minutes?

4) In triangle MKG, MK = KG, $\angle K = 72^0$. Find the measures of angle M and angle G.

5) Find the length of the side of a regular hexagon if its perimeter is 39cm.

Q. 2)   Solve the following questions. [15]

1) Simplify the following pair of expressions and state equality or order between the expressions.
$(90 + 135) \div 15$ and $(90 \div 5) - 3$

2) Divide 43794 by 27 and write the answer in the form
Dividend = Divisor × Quotient + Remainder

3) 10 notebooks are made from 1 ream of paper. How many paper-sheets will be required to make such 25 notebooks?
[24 paper-sheets = 1 quire, 20 quires = 1 ream]

4) In a hostel, the expenditure per week of 35 boys is Rs.19600. Find the expenditure of 42 boys per week.

5) Sanjay sold a scooter for Rs. 65000 with 5% profit. What was the cost price of the scooter?
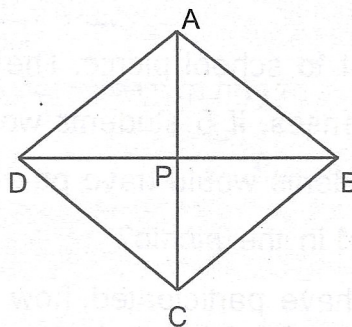
Q. 3)   Solve the following questions. [15]

1) Factorize: 103950.

2) Simplify: $7.6 \div (9.68 - 7.18)$

3) In a unit test Rekha got 30 marks out of 40 in Mathematics; and 18 marks out of 25 in English. In which subject and by how many percent did she better?

4) Draw $\triangle$ XYZ with the given measures using instruments in your geometrical box. YZ = 5.2 cm, m$\angle$Y = 105^0, m$\angle$Z = 40^0

5) A train covered a distance of 240 km 992 m in 8 hours. How much distance did the train cover in 1 hour?

Q. 4) Solve the following questions. [20]

1) Find the maximum number of persons among whom 24 guavas, 32 bananas and 12 apples can be distributed equally. How many fruits of each kind would each of them get?

2) Simplify the following expression: $6\frac{3}{8} - 1\frac{3}{4} - \frac{11}{20}$

3) 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) A merchant purchased a bolt of cloth for Rs.1800 and sold it at 30% profit. In the transaction he made a profit of Rs. 4.50 per metre. How many metres of cloth did the bolt consist?

5) Quadrilateral ABCD is a rhombus. Observe the given figure and answer the questions.

i.   What is the measure of $\angle$APD?

ii. If $\angle$PBA = 40^0, $\angle$PAB =?

iii. If AB = 5 cm, what is the perimeter of the rhombus ABCD?

iv. If AC = 8 cm, AP =?

Q. 5) Solve the following questions. [20]

1) Simplify the following expression: $2\frac{3}{16} \times 1\frac{3}{7} \div 2\frac{1}{2}$

2) Simplify and write the answer in kilograms:
(9090 grams − 5 hectograms − 1500 decigrams)

3) The areas of a square and a rectangle are equal. Side of the square is 14 cm and one side of the rectangle is 20 cm. Find the length of the other side of the rectangle.

4) Meena walked for 22 minutes to cross a 1430 metres long bridge. Find her walking speed in km/hr.

5) Find the rate of simple interest if the amount of the principal of Rs.10000 would be double of the principal after 8 years.

Q. 6) Solve the following questions. [10]

1) Each one of Aditya, Rohan and Yash have some books. The number of books Aditya has is 60% of the number of books Rohan has. The number of books Yash has is 30% of the total number of books with Aditya and Rohan. If total number of books with all of them is 624, find the number of books with each of them.

2) Some students went to school picnic. They had contributed Rs. 200 each for travel expenses. If 5 students would not have gone, each of the participating students would have paid Rs. 25 more. How many students participated in the picnic?
If 5 more students have participated, how much amount would have been contributed by each one?

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