

ST. ARNOLD'S CENTRAL SCHOOL, PUNE
PERIODIC TEST - 2, EXAMINATION, 2018 - 2019
SUBJECT - MATHEMATICS

STD - VII

MM : 50

SECTION - A

1. Fill in the blanks :

(3x1=3)

- a. The simplest form of $\frac{-40}{56}$ is _____.
- b. 75 % of a day is _____ hours.
- c. If the perimeter of a square is 20m, then the side of the square is _____.

2. Solve the following :

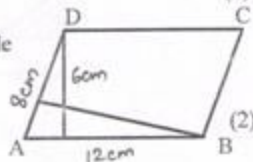
(3x1=3)

- a. What is the area of a triangle if its base is 12cm and height is 10cm ?
- b. How much does Ali save if his income is ₹15,000 and spends ₹10,200 ?
- c. What is the value of $\frac{-6}{13} \times 0$?

SECTION - B

Question numbers 3 to 7 carry 2 marks each :

3. Divide ₹ 1050 in the ratio 7 : 5. (2)
4. Find the value of $\frac{9}{13} \div \frac{-27}{78}$ (2)
5. Find x such that $\frac{-36}{x} = \frac{2}{3}$ (2)
6. Find the number whose 19% is 95. (2)
7. Two sides of a parallelogram are 12cm and 8cm. If the altitude corresponding to the side of the length 12cm is 6cm long, find the length of the altitude corresponding to the side 8cm. (2)



SECTION - C

Question numbers 8 to 13 carry 3 marks each :

8. The excise duty of a certain item has been reduced to ₹ 3450 from ₹ 5220. Find the percentage decrease for that item. (3)
9. In how many years will ₹9000 yield an interest of ₹3240 at 12% per annum simple interest? (3)
10. Nitin bought a computer for ₹20,000 and spent ₹2250 to upgrade it. Later he sold it for ₹25,810. Find the loss or gain percentage in the transaction. (3)
11. How many pieces each of length $6\frac{1}{4}$ m can be cut out from a rope of length $87\frac{1}{2}$ m ? (3)
12. A wire is bent in the form of a square of side 14cm. If the same wire is rebent into a circle, find the area enclosed by the circle. (3)
13. Find three rational numbers between $\frac{-3}{4}$ and $\frac{-4}{3}$ (3)

SECTION - D

Question numbers 14 to 17 carry 4 marks each :

14. Represent the following rational numbers on different number lines.

a. $\frac{2}{3}$ b. $-\frac{5}{7}$ c. $\frac{7}{8}$ (4)

15. A garden is 95m long and 80m broad. A path of 2.5m wide is to be constructed outside around it. Find the area of the path. (4)

16. Mary's father bought a 12kg cake for Christmas and gave 3kg of it to their neighbour. (4)

Find: a. Percentage of the cake given to their neighbour.

b. Percentage of the cake remaining with them.

17. Find the area of the shaded portion where a circle is inscribed inside a square. (4)

