

ST. ARNOLD'S CENTRAL SCHOOL, PUNE  
PERIODIC TEST -2, 2017-2018  
SUBJECT: MATHEMATICS

STD: VI

MM: 50

SECTION - A

1. Fill in the blank :

(4x1 = 4)

- (a) In \_\_\_\_\_, the value of the left hand side is equal to the value of right hand side.
- (b) Two quantities can be compared only, if they are in the \_\_\_\_\_ unit.
- (c) When the sum of the measure of two angles is that of a right angle, then each one of them is \_\_\_\_\_.
- (d) The measure of reflex angle is \_\_\_\_\_ than  $360^\circ$ .

2. Choose the correct option :

(4x1 = 4)

- (a) The sum of two right angle is \_\_\_\_\_.
- i) straight angle                      ii)  complete angle
- iii) isosceles angle                      iv) acute angle
- (b) Which of the following is an example for perpendicular lines?
- i) the letter 'V'                      ii) the adjacent edge of table top
- iii) the lines of railway track                      iv) the opposite edge of table top
- (c) The ratio of the number of cushion covers to the number of bedsheets is 4:1. If there are 24 cushion covers, the number of bedsheets will be
- i) 4                      ii) 12
- iii) 6                      iv) 8
- (d) A triangle with one right angle and two acute angle is called \_\_\_\_\_.
- i) Right angled triangle                      ii) Obtuse angled triangle
- iii) Acute angled triangle                      iv) None

SECTION - B

(6x2 = 12)

Question numbers 3 to 8 carry 2 marks each :

3. Find the ratio of 144 and 36.

4. If  $15x = 45$ , find value of  $x$ .
5. What fraction of clockwise revolution does the hour hand of a clock turn through, when it goes from 1 to 10.
6. Write 2 equivalent ratios of 4:15.
7. A square can be thought of as a special rectangle. Give reason for the same.
8. If 's' is the side of a regular pentagon, represent the perimeter of the pentagon as an algebraic expression. Find the perimeter, when 's' is 5.

**SECTION - C**

(6x3= 18)

**Question numbers 9 to 14 carry 3 marks each :**

9. Give expression for the following.
- (a) 'x' multiplied by 7 and 3 added to the product. (b) 'z' multiplied by -5.
- (c) 6 times 'y' from which 3 is subtracted.
10. The length of a rectangular hall is 4 metres less than 3 times the breadth of the hall. What is the length, if the breadth is 'b' metre?
11. Which of the following are algebraic expressions? Give reason for your answers.
- (a)  $2x+3$  (b)  $6(22-9) + 8x^2$  (c)  $5y-20x^2$
12. Draw a rough sketch of regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of triangle you have drawn.
13. Draw a rough sketch of quadrilateral PQRS and mention:
- (a) two pairs of opposite sides.
- (b) two pairs of opposite angles.
- (c) two pairs of adjacent sides.
14. If the weight of 12 bags of wheat is 90 kg. What will be the weight of 20 bags?

**SECTION - D**

(3x4 = 12)

**Question numbers 15 to 17 carry 4 marks each :**

15. Leena is 4 years younger than Jaya. What is the present age of Leena? What will be the age of Leena and Jaya after 10 years?

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 $7x+3$