

**KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION**  
**PERIODIC TEST-02 EXAM SAMPLE PAPER 01 (2017-18)**

SUBJECT: MATHEMATICS

**BLUE PRINT FOR PERIODIC TEST-02 : CLASS VIII**

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Rational Numbers	--	2(1)	--	--	<b>2(1)</b>
Linear equations in one variable	1(1)	--	--	--	<b>1(1)</b>
Understanding Quadrilaterals	1(1)	--	--	--	<b>1(1)</b>
Practical Geometry	--	2(1)	--	--	<b>2(1)</b>
Data Handlings	1(1)	--	--	--	<b>1(1)</b>
Squares and Square Roots	1(1)	--	--	--	<b>1(1)</b>
Cubes and Cube Roots	--	2(1)	--	--	<b>2(1)</b>
Comparing Quantities	--	2(1)	--	--	<b>2(1)</b>
Algebraic Expressions	--	--	3(1)	4(1)	<b>7(2)</b>
Visualizing Solid Shapes	--	--	3(1)	4(1)	<b>7(2)</b>
Mensuration	--	--	3(1)	4(1)	<b>7(2)</b>
Exponents and Powers	--	--	3(1)	4(1)	<b>7(2)</b>
<b>Total</b>	<b>4(4)</b>	<b>8(4)</b>	<b>12(4)</b>	<b>16(4)</b>	<b>40(16)</b>

**MARKING SCHEME FOR PERIODIC TEST – 02 EXAM**

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	4	04
SA – I	2	4	08
SA – II	3	4	12
LA	4	4	16
<b>GRAND TOTAL</b>			<b>40</b>

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**SUBJECT: MATHEMATICS**  
**CLASS : VIII**

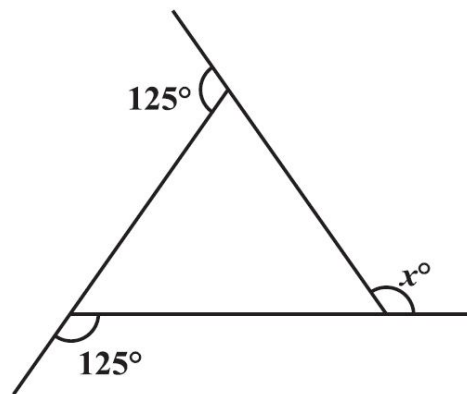
**MAX. MARKS : 40**  
**DURATION : 1½HRS**

**General Instructions:**

- (i). All questions are compulsory.
- (ii). This question paper contains **16** questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 4 questions of **1 mark** each. **Section B** comprises of 4 questions of **2 marks** each. **Section C** comprises of 4 questions of **3 marks** each and **Section D** comprises of 4 questions of **4 marks** each.
- (iv). Use of Calculators is not permitted

**SECTION – A**

1. Find the solution of  $2x - 3 = 7$ .
2. Find  $x$  in the adjoining figure:
3. Find the square root of 12.25.
4. Find the cube root of 8000.



**SECTION – B**

5. Find two rational numbers between  $\frac{3}{5}$  and  $\frac{3}{4}$ .
6. Construct a quadrilateral PQRS where  $PQ = 4$  cm,  $QR = 6$  cm,  $RS = 5$  cm,  $PS = 5.5$  cm and  $PR = 7$  cm.
7. The price of a scooter was Rs 34,000 last year. It has increased by 20% this year. What is the price now?
8. The weekly wages (in Rs) of 30 workers in a factory are.

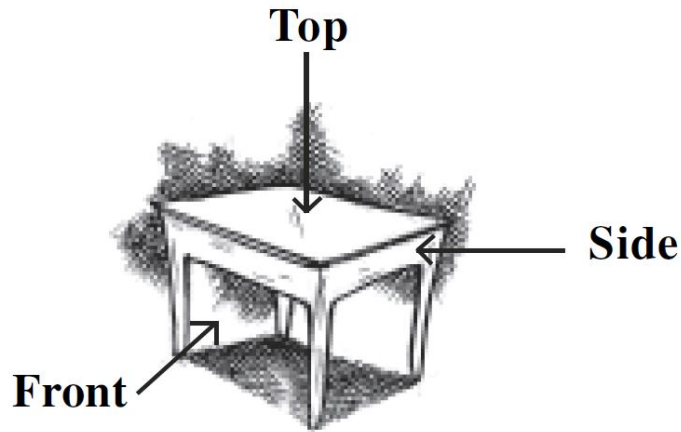
830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840

Using tally marks make a frequency table with intervals as 800–810, 810–820 and so on.

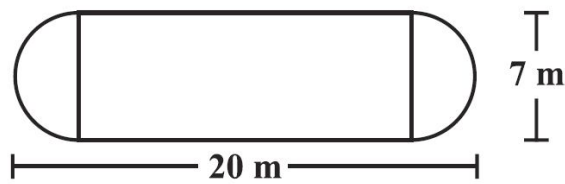
**SECTION – C**

9. Simplify:  $\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}}$  ( $t \neq 0$ )
10. Simplify: (i)  $(x^2 - 5)(x + 5) + 25$  (ii)  $(a^2 + 5)(b^3 + 3) + 5$

11. Draw the front view, side view and top view of the below objects.



12. The shape of a garden is rectangular in the middle and semi circular at the ends as shown in the diagram. Find the area and the perimeter of this garden



**SECTION – D**

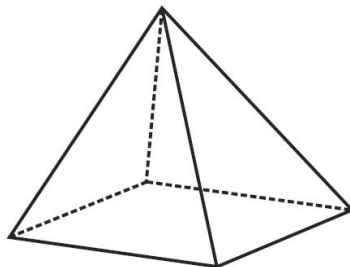
13. Write the following numbers in standard form.

- (i) 0.000000564
- (ii) 0.0000021
- (iii) 21600000
- (iv) 15240000

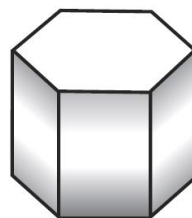
14. Using identities, evaluate (i)  $102^2$  (iv)  $998^2$

15. The internal measures of a cuboidal room are  $12\text{ m} \times 8\text{ m} \times 4\text{ m}$ . Find the total cost of white washing all four walls of a room, if the cost of white washing is Rs 5 per  $\text{m}^2$ . What will be the cost of white washing if the ceiling of the room is also white washed.

16. Verify Euler’s formula for these solids:



(i)



(ii)