

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

SUBJECT: MATHEMATICS

BLUE PRINT FOR PERIODIC TEST-02 : CLASS VII

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Integers	1(1)	--	--	--	1(1)
Fractions and Decimals	--	2(1)	--	--	2(1)
Data Handlings	--	2(1)	--	--	2(1)
Simple Equations	1(1)	--	--	--	1(1)
Lines and Angles	1(1)	--	--	--	1(1)
Triangle and its properties	1(1)	--	--	--	1(1)
Congruence of Triangles	--	2(1)	--	--	2(1)
Comparing Quantities	--	2(1)	--	--	2(1)
Rational Numbers	--	--	3(1)	--	3(1)
Practical Geometry	--	--	3(1)	4(1)	7(2)
Perimeter and Area	--	--	3(1)	8(2)	11(3)
Algebraic Expressions	--	--	3(1)	4(1)	7(2)
Total	4(4)	8(4)	12(4)	16(4)	40(16)

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
GRAND TOTAL			40

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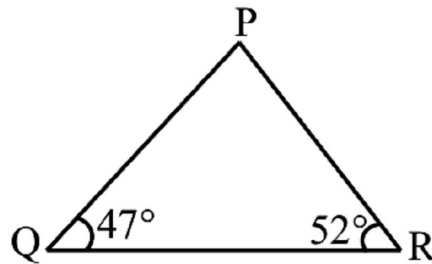
MAX. MARKS : 40
DURATION : 1½HRS

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. Solve: $3n + 7 = 25$
2. Evaluate: $[(-6) + 5] \div [(-2) + 1]$
3. Find the angle which is equal to its complement.
4. In the given figure, find $m\angle P$.



SECTION – B

5. Find the whole quantity if 5% of it is 600.
6. The marks (out of 100) obtained by a group of students in a science test are 85, 76, 90, 85, 39, 48, 56, 95, 81 and 75. Find the:
 - (i) Range of the marks obtained.
 - (ii) Mean marks obtained by the group.
7. If $\triangle DEF \cong \triangle BCA$, write the part(s) of $\triangle BCA$ that correspond to (i) $\angle E$ (ii) EF (iii) $\angle F$ (iv) DF
8. Find: (i) 0.2×316.8 (ii) 1.3×3.1

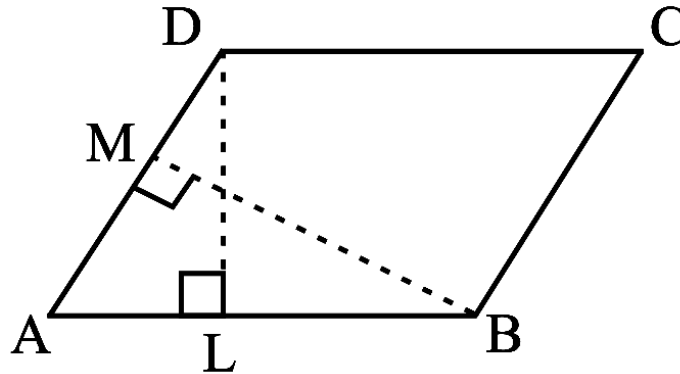
SECTION – C

9. Find any three rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$

10. If $a = 2$, $b = -2$, find the value of: (i) $a^2 + ab + b^2$ (iii) $a^2 - b^2$.

11. Construct $\triangle LMN$, right-angled at M , given that $LN = 5$ cm and $MN = 3$ cm.

12. DL and BM are the heights on sides AB and AD respectively of parallelogram $ABCD$ (see below figure). If the area of the parallelogram is 1470 cm^2 , $AB = 35$ cm and $AD = 49$ cm, find the length of BM and DL .



SECTION – D

13. From the sum of $2y^2 + 3yz$, $-y^2 - yz - z^2$ and $yz + 2z^2$, subtract the sum of $3y^2 - z^2$ and $-y^2 + yz + z^2$.

14. Two cross roads, each of width 10 m, cut at right angles through the centre of a rectangular park of length 700 m and breadth 300 m and parallel to its sides. Find the area of the roads. Also find the area of the park excluding cross roads. Give the answer in hectares.

15. Construct $\triangle PQR$ if $PQ = 5$ cm, $m\angle PQR = 105^\circ$ and $m\angle QRP = 40^\circ$.

16. A verandah of width 2.25 m is constructed all along outside a room which is 5.5 m long and 4 m wide. Find:

(i) the area of the verandah.

(ii) the cost of cementing the floor of the verandah at the rate of Rs 200 per m^2 .

