

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
PERIODIC TEST-02 EXAM SAMPLE PAPER 03 (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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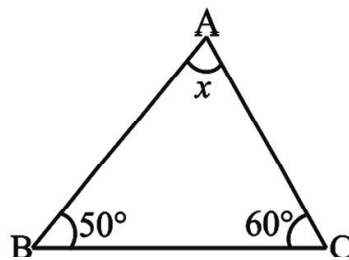
MAX. MARKS : 40
DURATION : 1½HRS

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. Write equations for the statements: One fourth of m is 3 more than 7.
2. Find the complementary angle of 42° .
3. Find the product: $(-1) \times (-2) \times (-3) \times 4$
4. Find the value of x in the following figures:



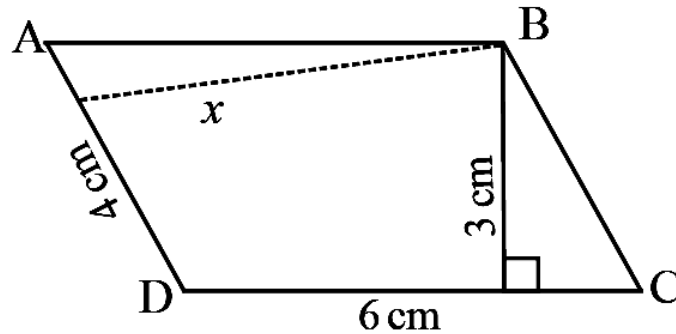
SECTION – B

5. Find: (a) 15% of 250 (b) 1% of 1 hour
6. Find: (i) $7 \div 3.5$ (ii) $36 \div 0.2$
7. If $\triangle ABC \cong \triangle PQR$ under the correspondence $ABC \leftrightarrow RQP$, write all the corresponding congruent parts of the triangles.
8. The ages in years of 10 teachers of a school are:
32, 41, 28, 54, 35, 26, 23, 33, 38, 40
(i) What is the range of the ages of the teachers?
(ii) What is the mean age of these teachers?

SECTION – C

9. Find: (i) $\frac{-9}{10} + \frac{22}{15}$ (ii) $\frac{7}{24} - \frac{17}{36}$

10. Find the value of the following expressions when $n = -2$.
 (i) $5n - 2$ (ii) $5n^2 + 5n - 2$ (iii) $n^3 + 5n^2 + 5n - 2$
11. Construct a triangle PQR, given that $PQ = 3$ cm, $QR = 5.5$ cm and $\angle PQR = 60^\circ$.
12. The two sides of the parallelogram ABCD are 6 cm and 4 cm. The height corresponding to the base CD is 3 cm (see below figure). Find the (i) area of the parallelogram. (ii) the height corresponding to the base AD.



SECTION - D

13. (a) What should be added to $x^2 + xy + y^2$ to obtain $2x^2 + 3xy$?
 (b) What should be subtracted from $2a + 8b + 10$ to get $-3a + 7b + 16$?
14. Construct $\triangle ABC$ such that $AB = 2.5$ cm, $BC = 6$ cm and $AC = 6.5$ cm. Measure $\angle B$.
15. A path 5 m wide runs along inside a square park of side 100 m. Find the area of the path. Also find the cost of cementing it at the rate of Rs 250 per m^2 .
16. Through a rectangular field of length 90 m and breadth 60 m, two roads are constructed which are parallel to the sides and cut each other at right angles through the centre of the fields. If the width of each road is 3 m, find
 (i) the area covered by the roads.
 (ii) the cost of constructing the roads at the rate of Rs 110 per m^2 .

