KENDRIYA VIDYALAYA GACHIBOWLI, GPRA CAMPUS, HYD–32

PERIODIC TEST-02 EXAM SAMPLE PAPER 03 (2018-19)

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
Algebraic Expressions	1(1)	2(1)	3(1)	4(1)	**10(4)**
Visualizing Solid Shapes	1(1)	--	3(1)	--	**4(2)**
Mensuration	1(1)	2(1)	3(1)	4(1)	**10(4)**
Exponents and Powers	--	2(1)	--	4(1)	**6(2)**
Direct and Inverse Proportions	1(1)	2(1)	3(1)	4(1)	**10(4)**
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**

KENDRIYA VIDYALAYA GACHIBOWLI, GPRA CAMPUS, HYD–32

PERIODIC TEST-02 EXAM SAMPLE PAPER 03 (2018-19)

SUBJECT: MATHEMATICS **MAX. MARKS : 40**

CLASS : VIII **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. The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area.

2. Using Euler's formula find V, if F = 5 and E = 14.

3. Evaluate: $(b - 7)^2$

4. If the number of pipes is in inverse proportion with the time, find the value of x.

Number of pipes :	6	5
Time (in minutes) :	80	x

SECTION – B

5. The diagonal of a quadrilateral shaped field is 24 m and the perpendiculars dropped on it from the remaining opposite vertices are 8 m and 13 m. Find the area of the field.

6. Simplify the expressions $3y(2y - 7) - 3(y - 4) - 63$ and evaluate for $y = -2$

7. A car takes 2 hours to reach a destination by travelling at the speed of 60 km/h. How long will it take when the car travels at the speed of 80 km/h?

8. Find the value of m for which $5^m \div 5^{-3} = 5^5$.

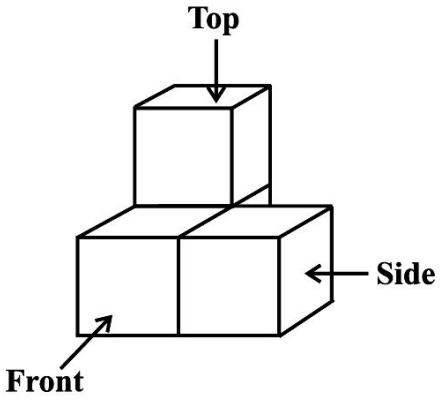
SECTION – C

9. In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m. Find the total cost of painting the curved surface area of all pillars at the rate of Rs 8 per m^2.

10. Suppose 2 kg of sugar contains 9×10^6 crystals. How many sugar crystals are there in (i) 5 kg of sugar? (ii) 1.2 kg of sugar?

11. Simplify: (i) $(x + y)(2x + y) + (x + 2y)(x - y)$
(ii) $(x + y)(x^2 - xy + y^2)$

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



SECTION – D

13. Express the number appearing in the following statements in standard form.
(i) Charge of an electron is 0.000,000,000,000,000,000,16 coulomb.
(ii) Size of a bacteria is 0.0000005 m
(iii) Size of a plant cell is 0.00001275 m
(iv) Thickness of a thick paper is 0.07 mm

14. A train is moving at a uniform speed of 75 km/hour.
(i) How far will it travel in 20 minutes?
(ii) Find the time required to cover a distance of 250 km.

15. Using identities, evaluate (i) 78×82 (ii) 8.9^2

16. Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is 108 m^3, find the number of hours it will take to fill the reservoir.