

KENDRIYA VIDYALAYA GACHIBOWLI , GPRA CAMPUS, HYD-32
PERIODIC TEST-02 EXAM SAMPLE PAPER 02 (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	--	2(1)	3(1)	--	5(2)
Mensuration	1(1)	2(1)	3(1)	4(1)	10(4)
Exponents and Powers	1(1)	--	--	4(1)	5(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 02 (2018-19)

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

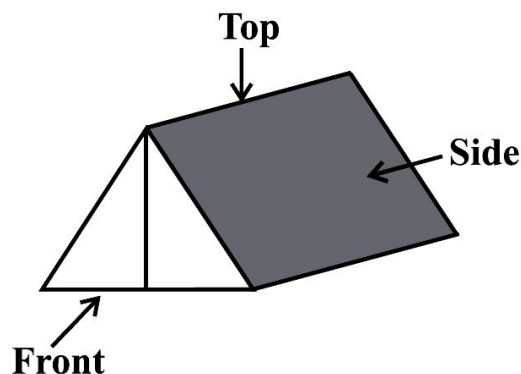
SECTION – A

1. Find the side of a cube whose surface area is 600 cm^2 .
2. Find the product $(a^2) \times (2a^{22}) \times (4a^{26})$.
3. Evaluate: $(5^{-1} \times 2^{-1}) \times 6^{-1}$
4. The height of the object is in direct proportion with the length of the shadow. Find the value of x.

height of the object (in metres) :	14	x
length of the shadow (in metres) :	10	15

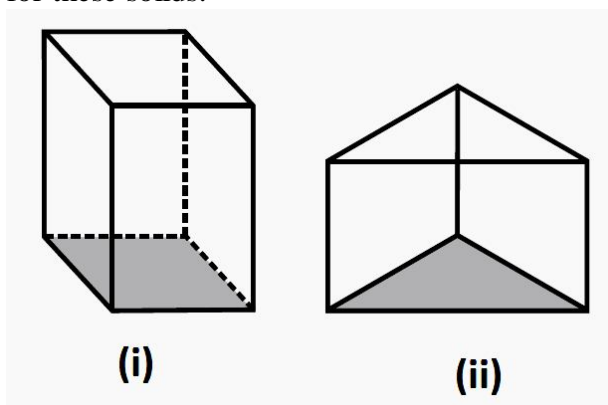
SECTION – B

5. The area of a trapezium is 34 cm^2 and the length of one of the parallel sides is 10 cm and its height is 4 cm. Find the length of the other parallel side.
6. Simplify $(a + b)(2a - 3b + c) - (2a - 3b)c$.
7. A loaded truck travels 14 km in 25 minutes. If the speed remains the same, how far can it travel in 5 hours?
8. Draw the front view and top view of the given object.



SECTION – C

9. The lateral surface area of a hollow cylinder is 4224 cm^2 . It is cut along its height and formed a rectangular sheet of width 33 cm. Find the perimeter of rectangular sheet?
10. A factory requires 42 machines to produce a given number of articles in 63 days. How many machines would be required to produce the same number of articles in 54 days?
11. Simplify: (i) $(t + s^2)(t^2 - s)$
(ii) $(a + b)(c - d) + (a - b)(c + d) + 2(ac + bd)$
12. Verify Euler's formula for these solids:



SECTION – D

13. A 5 m 60 cm high vertical pole casts a shadow 3 m 20 cm long. Find at the same time (i) the length of the shadow cast by another pole 10 m 50 cm high (ii) the height of a pole which casts a shadow 5m long.
14. Using identities, evaluate (i) 5.2^2 (ii) 297×303
15. A milk tank is in the form of cylinder whose radius is 1.5 m and length is 7 m. Find the quantity of milk in litres that can be stored in the tank?
16. Simplify: $\frac{3^{-5} \times 10^{-5} \times 125}{5^{-7} \times 6^{-5}}$
-