KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD – 32
SAMPLE PAPER 02 FOR SA – II (2016-17)

SUBJECT: MATHEMATICS

BLUE PRINT : SA–II CLASS VI

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Fractions	1(1)	1(2)	1(3)	1(4)	**4(10)**
Decimals	1(1)	1(2)	1(3)	1(4)	**4(10)**
Data Handlings	1(1)	--	2(6)	--	**3(7)**
Mensuration	1(1)	1(2)	1(3)	1(4)	**4(10)**
Ratio and proportions	1(1)	1(2)	1(3)	1(4)	**4(10)**
Symmetry	1(1)	1(2)	1(3)	--	**3(6)**
Practical Geometry	2(2)	1(2)	1(3)	--	**4(7)**
Total	**8(8)**	**6(12)**	**8(24)**	**4(16)**	**26(60)**

MARKING SCHEME FOR SA – II

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	8	08
SA – I	2	6	12
SA – II	3	8	24
LA	4	4	16
GRAND TOTAL			**60**

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SUBJECT: MATHEMATICS MAX. MARKS : 60

CLASS : VI DURATION : 2½ HRS

General Instructions:
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A consists 8 questions each carry 1 marks, Sections B consists 6 questions each carry 2 marks, Sections C consists 8 questions each carry 3 marks and Sections D consists 4 questions each carry 4 marks

SECTION – A

1. The length of a young gram plant is 65 mm. Express its length in cm.

2. Express the mixed fraction $7\frac{3}{4}$ as improper fractions.

3. Meera went to a park 150 m long and 80 m wide. She took one complete round on its boundary. What is the distance covered by her?

4. Find the ratio of 90 cm to 1.5 m.

5. Draw a line segment of length 5 cm using a ruler.

6. Name the geometrical instrument having a semi-circular device graduated into 180 degree-parts.

7. Find the number of lines of symmetry in regular pentagon.

8. The following are the number of electric bulbs purchased for a lodging house during the first four months of a year. (Each bulb symbol represent 10 bulbs.) Find the numbers of bulbs purchased during April.

January	🔆 🔆
February	🔆 🔆 ◖
March	🔆 🔆 🔆
April	🔆 🔆 🔆 ◖

SECTION – B

9. Radhika's mother gave her Rs 10.50 and her father gave her Rs 15.80, find the total amount given to Radhika by the parents.

10. Simplify: $\dfrac{2}{3} + \dfrac{3}{4} + \dfrac{1}{2}$

11. With PQ of length 6 cm as diameter, draw a circle.

12. Write the letters of the word 'MATHEMATICS' which have no line of symmetry.

13. There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of :
(a) The number of females to number of males.
(b) The number of males to number of females.

14. Two sides of a triangle are 22 cm and 28 cm. The perimeter of the triangle is 70 cm. What is its third side?

SECTION – C

15. Subtract :
(a) Rs 5.36 from Rs 8.40
(b) 2.051 km from 5.206 km

16. Asha and Samuel have bookshelves of the same size partly filled with books. Asha's shelf is $\frac{5}{6}$ th full and Samuel's shelf is $\frac{2}{5}$ th full. Whose bookshelf is more full? By what fraction?

17. Construct with ruler and compasses, angles of following measures:
(a) 30° (b) 45°

18. Vandana wants to cover the floor of a room 6 m wide and 8 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.

19. Present age of father is 42 years and that of his son is 14 years. Find the ratio of
(a) Age of the father to the age of son, when son was 12 years old.
(b) Age of father after 10 years to the age of son after 10 years.
(c) Age of father to the age of son when father was 30 years old.

20. The following are the number of electric bulbs purchased for a lodging house during the first four months of a year.

Months	January	February	March	April
No. of bulbs	20	26	30	34

Represent the details by a pictograph.

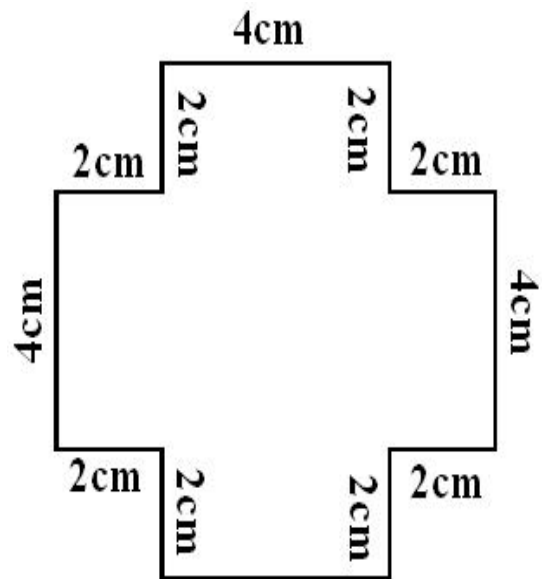**21.** The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below:

Days	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Number of books sold	65	40	30	50	20	70

Draw a bar graph to represent the above information choosing the scale of your choice.

22. Consider the letters of English alphabets, A to Z. List among them the letters which have
   (a) vertical lines of symmetry
   (b) horizontal lines of symmetry
   (c) no lines of symmetry

SECTION – D

23. Mohan donated Rs. $5\frac{3}{4}$ to poor and Rs. $5\frac{2}{5}$ to the orphan students, how much money were donated by him? What values depicted from this?

24. A car travels 90 km in $2\frac{1}{2}$ hours. (a) How much time is required to cover 30 km with the same speed? (b) Find the distance covered in 2 hours with the same speed.

25. Express as km using decimals.
   (a) 8 m
   (b) 88 m
   (c) 8888 m
   (d) 70 km 5 m

26. By splitting the following figures into rectangles, find their areas

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