

# SAMPLE QUESTION PAPER

Class - ...VII.....

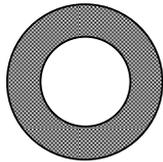
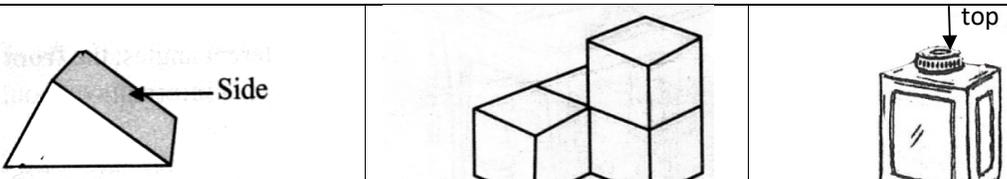
Subject .....Maths.....

**General Instructions -**

- **Section A** comprises **12** questions of **1 mark** each. **All are compulsory.**
- **Section B** comprises **5** questions of **2 marks** each. **All are compulsory.**
- **Section C** comprises **12** questions of **3 marks** each. Attempt **any 10** questions.
- **Section D** comprises **8** questions of **4 marks** each. Attempt **any 7** questions.
- Draw neat diagrams wherever needed.
- Show the required calculation in fair.

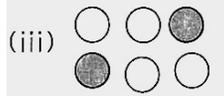
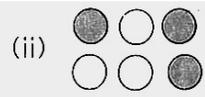
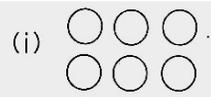
**Section -AS**

Q.1	A map is given with a scale of 2 cm = 1000 km. What is the actual distance between the two places in kilometres, if the distance in the map is 2.5 cm?	(1)
Q.2	Fill in the box :- $\frac{18}{-15} = \frac{\quad}{5}$	
Q.3	The smallest rational number is (a) $\frac{0}{1}$ (b) 1    (c) -1    (d) None of these	
Q.4	Fill in the blanks :- $2m^2 = \quad cm^2$	
Q.5	$\pi$ is a constant with approximate value of _____ .	
Q.6	Simplify :- $10xy - 4x^2 + 11x^2 - 3xy$	
Q.7	The constant term from the expression $mn + m^2 - 1$ is _____	
Q.8	Fill in the box :- $3^3 \times 3^4 \times 3 = 3$	
Q.9	Find the value of :- $[(-2)^3]^0$	
Q.10	Say Yes /No (a) Every object has a rotational symmetry of order 1. (b) Regular polygons have as many axes of symmetry as the number of sides.	
Q.11	The number of edges in square pyramid is _____.	
Q.12	The measure of chance of an event happening is its _____	
<b>Section-B</b>		
Q.13	What should be added to $-\frac{7}{8}$ to get $\frac{4}{9}$ ?	
Q.14	Draw a line parallel to a given line 'l' and passing through a given point 'p'.	
Q.15	From a circular sheet of radius 4 cm, a circle of radius 3 cm is removed. Find the	

	<p>area of remaining sheet. (Use <math>\pi = 3.14</math>)</p> 	
Q.16	If $a = 2$ and $b = -1$ , find the value of $-a^2 - b^2$	
Q.17	Meena has to choose a number from 1 to 10. What is the probability of picking (a) an even number? (b) a prime number?	
Q.18	The population of a village was 36800 last year. This year the population increased by 4%. What is the population this year?	
Q.19	In how many years will Rs 6750 amount to Rs 8910 at the rate of 8% pa interest?	
Q.20	Satpal walks $\frac{2}{3}$ km from a place P, towards east and then from there $1\frac{5}{7}$ km towards west. Where will he be now from P?	
Q.21	The area of square and a rectangle are equal. If the side of the square is 40cm and the breadth of the rectangle is 25 cm, find the length of the rectangle. Also find the perimeter of the rectangle.	
Q.22	What should be subtracted from $2a + 8b + 10$ to get $-3a + 7b + 16$ ?	
Q.23	Get the algebraic expression in the following cases using variables, constants and arithmetic operation:- (1) Numbers $x$ and $y$ both squared and added. (2) Number 5 added to three times the product of numbers $m$ and $n$ . (3) Product of numbers $y$ and $z$ subtracted from their product.	
Q.24	Simplify : $\frac{12^4 \times 9^3 \times 4}{6^3 \times 8^2 \times 27}$	
Q.25	Express in standard form : (i) 3, 18, 65, 00, 000 (ii) 3908, 78	
Q.26	State the number of lines of symmetry for the following figures :- (i) An isosceles triangle (ii) A parallelogram (iii) A regular hexagon	
Q.27	Draw an isometric sketch of the cuboid whose dimensions are 5 cm, 3 cm and 2 cm.	
Q.28	Draw a view of each solid as seen from the directions indicated by the arrow	
		

	(a)	(b)	(c)																			
Q.29	<p>The heights of 10 girls were measured in centimeter and the results are as follows:- 135, 150, 139, 128, 151, 132, 146, 149, 143, 141.</p> <p>(i) What is the range of the data? (ii) What is the mean height of the girls?</p>																					
<b>Section - D</b>																						
Q.30	<p>(i) Chalk contains calcium, carbon and oxygen in the ratio 10 : 3 : 12. Find the percentage of carbon in chalk. (ii) If in a stick of chalk, carbon is 3g, what is the weight of the chalk.</p>																					
Q.31	Construct $\Delta XYZ$ if it is given that $XY = 6\text{cm}$ , $m\angle ZXY = 30^\circ$ and $m\angle XYZ = 100^\circ$ .																					
Q.32	Construct an isosceles right angled triangle ABC, where $m\angle ACB = 90^\circ$ and $AC = 6\text{ cm}$																					
Q.33	Two cross roads each of width 5 cm, run at right angles through the centre of a rectangular park of length 70m and breadth 45 m and parallel to its sides. Find the area of the roads. Also, find the cost of constructing the roads at the rate of Rs 105 per $m^2$ .																					
Q.34	From the sum of $4 + 3x$ and $5 - 4x + 22x^2$ , subtract the sum of $3x^2 - 2x + 5$																					
Q.35	Fill in the boxes :-																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Shape</th> <th style="width: 33%;">Order of rotation</th> <th style="width: 33%;">Angle of rotation</th> </tr> </thead> <tbody> <tr> <td>Rectangle</td> <td></td> <td></td> </tr> <tr> <td>Equilateral triangle</td> <td></td> <td></td> </tr> <tr> <td>Rhombus</td> <td></td> <td></td> </tr> <tr> <td>Semicircle</td> <td></td> <td></td> </tr> </tbody> </table>			Shape	Order of rotation	Angle of rotation	Rectangle			Equilateral triangle			Rhombus			Semicircle						
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Q.36	<p>The performance of a student in 1<sup>st</sup> Term and 2<sup>nd</sup> Term is given. Draw a double bar graph choosing appropriate scale and answer the following:-</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 16.6%;">Subject</th> <th style="width: 16.6%;">English</th> <th style="width: 16.6%;">Hindi</th> <th style="width: 16.6%;">Maths</th> <th style="width: 16.6%;">Science</th> <th style="width: 16.6%;">S.Sc.</th> </tr> </thead> <tbody> <tr> <td>1<sup>st</sup> Term ( MM.100)</td> <td>67</td> <td>72</td> <td>88</td> <td>81</td> <td>73</td> </tr> <tr> <td>2<sup>nd</sup> Term (MM. 100)</td> <td>70</td> <td>65</td> <td>95</td> <td>85</td> <td>75</td> </tr> </tbody> </table> <p>(i) In which subject, has the child improved the most ? (ii) Has the performance gone down in any subject ?</p>			Subject	English	Hindi	Maths	Science	S.Sc.	1 <sup>st</sup> Term ( MM.100)	67	72	88	81	73	2 <sup>nd</sup> Term (MM. 100)	70	65	95	85	75	
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1 <sup>st</sup> Term ( MM.100)	67	72	88	81	73																	
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Write the probability of picking a shaded card from the following:-



Q.37