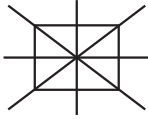

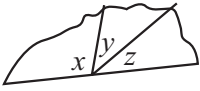
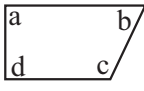
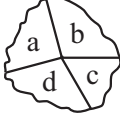


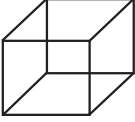
## Answer Sheet

## Part - I

01.	(i) 	01	
	(ii) 4	01	02
02.	$\frac{7}{5} \times \frac{10}{7}$	01	
	2	01	02
03.	$x + 30^\circ + 110^\circ = 180^\circ$ $x = 40^\circ$	01	
		01	02
04.	$42 \times 2 = 84$	01	
	0.084	01	02
05.	$\frac{1}{2} \times 12 \times 8$	01	
	$= 48\text{cm}^2$	01	02
06.	$2x = 8$	01	
	$x = 4$	01	02
07.	$\frac{2}{5} \times 100\%$	01	
	40%	01	02
	$\frac{2}{5} \times \frac{20}{20}$		
	40%		
08.	{E, R, O}		02
09.	$x + 30^\circ = 90^\circ$	01	
	$x = 60^\circ$	01	02
10.	$-12 + 8 = -4$	01	
	$\frac{-4}{-2} = 2$	01	02
11.	(i) $y + 90^\circ + 110^\circ + 100^\circ = 360^\circ$	01	
	(ii) $y = 60^\circ$	01	02
12.	$2^3 \times x^3$	01	
	$(2x)^3$	01	02
13.	$196 = 2 \times 7 \times 2 \times 7$	01	
	$\therefore \sqrt{196} = 2 \times 7 = 14$	01	02
14.	$3 + 1 = 4$	01	
	$\frac{3}{4}$	01	02
15.	-27		02
16.	4kg 150g		02
17.	3a		02
18.	$\frac{1}{4}$		02
19.	(i) $\frac{6}{10}$ or $\frac{3}{5}$	01	
	(ii) $\frac{60}{100} = 60\%$	01	02

20.	1st circle 2nd circle 3rd circle 	02 or 0	
			<b>40</b>
<b>Part - II</b>			
01.	(a) (i)  $x + y + z = 180^\circ$	03	
	(ii)  $a + b + c + d = 360^\circ$		
	(ii) 	03	
	(iii) $360^\circ = 2 \times 180^\circ$ $360^\circ = 360^\circ$	04	
	(b) (i) $a = 60^\circ$	01	
	$b = 120^\circ$	01	
	$d = 40^\circ$	01	
	$c = 20^\circ$	01	
	(ii) $x = 150^\circ$	01	
	$y = 30^\circ$	01	
02.	(i) $P = \{0, 2, 3, 8\}$	02	
	$Q = \{1, 2, 5\}$	02	
	$R = \{ \}$	02	
	(ii) $n(P) = 4$	01	
	$n(Q) = 3$	01	
	(iii) Q	01	
	$5 \in Q$	01	
	(iv) Null set	01	
			<b>11</b>
			<b>16</b>

## Answer Sheet

03.	<p>(a) (i) <math>12 \times 5</math> <math>60\text{m}^2</math></p> <p>(ii) <math>BCE \Delta = \frac{60}{3} = 20\text{m}^2</math></p> $\frac{1}{2} \times CE \times 5 = 20$ $CE = \frac{40}{5}$ $= 8\text{m}$ <p>(iii) <math>60 + 20</math> <math>80\text{m}^2</math></p> <p>(b)  Figure</p> $\left. \begin{array}{l} 5 \times 5 = 25\text{cm}^2 \\ 25 \times 6 \\ 150\text{cm}^2 \end{array} \right\}$	01 01 01 01 01 01 01 01 01	<b>11</b>		01 01	<b>11</b>
04.	<p>(a) (i) <math>\frac{7}{2}</math></p> $3\frac{1}{2}$ <p>(ii) <math>\frac{15}{4} \times \frac{8}{3}</math></p> $\frac{10}{1}$ <p>(iii) <math>\frac{3.2}{0.8} = 4</math></p> <p>(b) <math>2\frac{4}{7} \div 1\frac{2}{7}</math></p> $\frac{18}{7} \div \frac{9}{7}$ $\frac{18}{7} \times \frac{7}{9}$ $2\text{m}$	01 01 01 01 02 01 01 01 01	<b>11</b>		01 01 01 01 01 01 01 01	<b>11</b>
05.	<p>(a) (i) <math>4x + 50</math></p> <p>(ii) <math>2(4x + 50) + 4x = 400</math> <math>8x + 100 + 4x = 400</math> <math>12x = 300</math> <math>x = 25</math></p> <p>(iii) <math>4 \times 25 + 50</math> Rs. 150</p>	02 01 01 02 01 01 01				<b>11</b>
				<p>(b) <math>4 \times x - 4 \times 3</math> <math>4(x - 3)</math></p>	01 01	<b>11</b>
				<p>06. (a) (i) <math>A : B : C</math></p> $\begin{array}{l} 3 : 2 \\ \swarrow \downarrow \\ 3 : 2 \\ \downarrow \downarrow \\ x3 \quad x2 \end{array} \rightarrow$ $\underline{\underline{9 : 6 : 4}}$ <p>(ii) <math>\frac{9}{19}</math></p> <p>(iii) <math>\frac{9500}{19} = 500</math></p> <p>A - <math>500 \times 9 = 4500</math></p> <p>B - <math>500 \times 6 = 3000</math></p> <p>C - <math>500 \times 4 = 2000</math></p> <p>(b) Sugar : Flour : Margarine</p> $200 : 500 : 100$ $2 : 5 : 1$	01 01 01 02 01 01 01 01 01 01	<b>11</b>
				<p>07. (a) (i) <math>\frac{2}{5} \times 100\%</math></p> $40\%$ <p>(ii) <math>\frac{9}{4}</math></p> $\frac{9}{4} \times 100\%$ $225\%$ <p>(b) (i) <math>\frac{2400}{12000} \times 100\%</math></p> $20\%$ <p>(ii) <math>50000 \times \frac{20}{100}</math></p> $\text{Rs. } 10000/=$	01 01 01 01 01 01 01 01 02 02	<b>11</b>