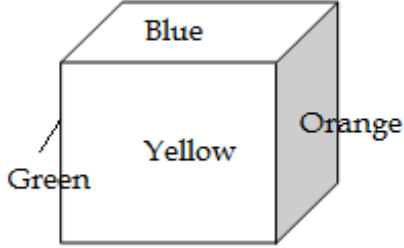
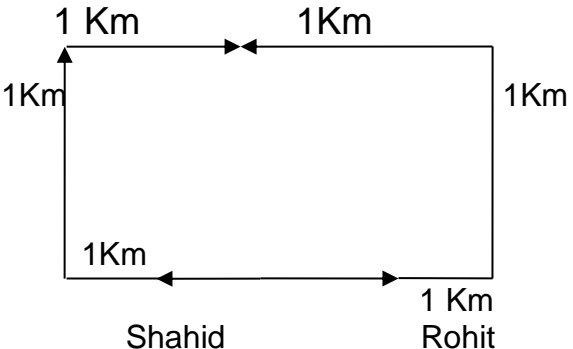
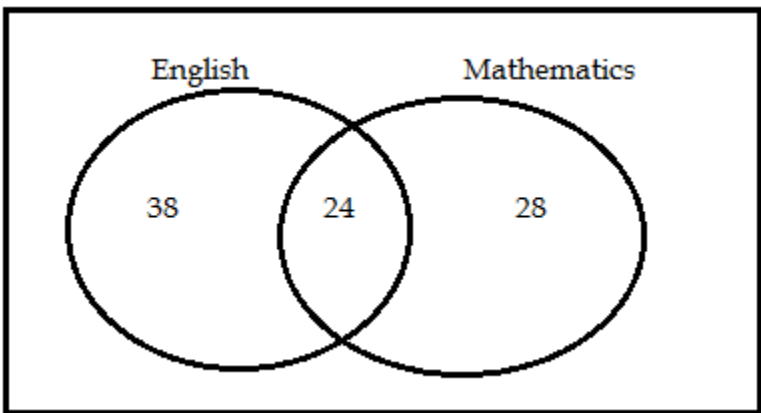


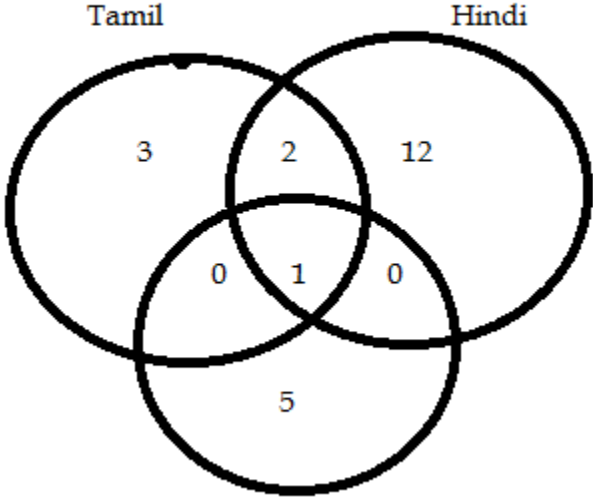
**UPSC Prelim-2015  
CSAT Paper-II (D-Series) Questions and Answers with Explanation**

Q. No.	Ans.	Explanation
1	B	
2	D	
3	C	
4	B	
5	B	
6	D	
7	B	
8	D	$\frac{\text{Principal}}{1} \times \frac{\text{V.P}}{2}$ $2C_1 \times 5C_2$ $\frac{L^2}{L^1 \times L^2} \times \frac{L^5}{L^3 \times L^2}$ $1 \times \frac{120}{6} = 20$
9	C	$\frac{4C_2 + 2C_2}{\frac{L^4}{L^2 \times L^2} + \frac{L^2}{L^0 \times L^2}}$ $\frac{24}{4} + 1 = 7$
10	D	<p>Let the price of brown pair be 2x and black pair be 3x                      Now if we purchase 25 pair of brown socks and 5 pairs of black socks as given then                      actual bill = 25Xx + 5 X3 x                      =25Xx +5 x = 40 x                      But if its interchanged then false bill = 25x3 x +5Xx = 80 x                      ∴ Rise will be of 100 %,                      so original pairs of brown socks = 25</p>
11		
12	A	
13	B	$\frac{20 \times 30}{(20 + 30)} = \frac{600}{50} = 12 \text{ Mins}$
14	C	From the statements 1 and 3 we can conclude O is opposite to G.

		
15	D	
16	D	
17	C	
18	C	
19	C	<p>Money spend by family A on food = <math>\frac{50}{100} \times 20000 = 10,000</math></p> <p>Money spent by family B on food = <math>\frac{10}{100} \times 100000 = 10,000</math></p> <p>Both are same</p>
20	B	<p>USHA &gt; KAMALA</p> <p>SWATI &gt; PRITI</p> <p>KAMAL &gt; SWATI</p> <p>∴ USHA &gt; KAMALA &gt; SWATI &gt; PRITI</p>
21	D	
22	D	
23	A	
24	A	
25	C	
26	A	
27	A	
28	C	
29	C	<p>Task-I (Person 1 or2)</p> <p>Task-II Assigned to (Person 3or4)</p> <p>Task-III</p> <p>Task-IV</p> <p>Task-V</p> <p>Revised answer = <math>L3X4 = 24</math></p>
30	A	<p>Let Income of Peter and Paul be <math>4x</math> &amp; <math>3x</math> and their expenditure by <math>3y</math> &amp; <math>2y</math></p> <p><math>4x - 3y = 6000</math> 1...x2</p> <p><math>3x - 2y = 6000</math> 2...x3</p> <p><math>+x = +6000</math></p> <p>∴ Income of Peter &amp; Paul = <math>24000 \times 18000</math></p>

31	B	Average Speed = $\frac{2 \times 40 \times 60}{60+40} = 48\text{Km/hr}$								
32	B									
33	A									
34	C	Here factorize 24 which is 6x4 now if 6 are boys and 4 girls then total handshakes among boys and girls = 6x4=24 Boys will hug among themselves = 5+4+3+2+1=15 Girls will hug among themselves = 3+2+1=6 ∴ Total hug = 15+6=21 ways								
35	D	Shabnam → Marathi Anil → Tamil Then either Rekha or David speaks either Marathi or Tamil and both drives car thus option D is correct.								
36	D									
37	D									
38	B	<table style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding-right: 20px;">Fighters</td> <td>Cowards</td> </tr> <tr> <td>A</td> <td>C</td> </tr> <tr> <td>E</td> <td>D</td> </tr> <tr> <td>F</td> <td>B</td> </tr> </table>	Fighters	Cowards	A	C	E	D	F	B
Fighters	Cowards									
A	C									
E	D									
F	B									
39	B	White Marbles = 10 Red Marbles = 13 Green Marbles = 5 ∴ Total Marbles = 28								
40	C	Let total be 100 ∴ Men=60 Women=40 Men Qualified $\frac{70 \times 60}{100} = 42$ Women Qualified $\frac{75 \times 40}{100} = 30$  Final result of Men $\frac{80 \times 42}{100} = \frac{168}{5} = 33.6$ Final result of Women $\frac{70 \times 30}{100} = 21$ ∴ Men's final result is more then women								
41	A									
42	D	-								
43	C									
44	B									

45	C	
46	D	
47	C	
48	B	
49	B	
50	C	
51	C	$N(A \cup B \cup C) = 45 + 55 + 40 - 30 - 15 - 25 + 10 = 80$ $\therefore N(A \cup B \cup C) = 100 - 80 = 20$
52	D	
53	B	 <p style="text-align: center;">After Travelling 3 Km each both meets.</p>
54	A	In unit time when A travels = 500 metres B travels = 420 metres $\therefore$ Ratio of their speeds = 500 : 420 = 25:21
55	A	$(\frac{1}{3} + \frac{1}{4}) : (\frac{2}{3} + \frac{3}{4})$
56	A	 <p style="text-align: center;"><math>\therefore</math> The number of student who passed finally = <math>130 - (38 + 24 + 28)</math>  <math>= 130 - 90 = 40</math></p>

57	C	<div style="text-align: center;">  <p>The Nos of Persons = 3+2+12+5=23</p> </div>
58	C	<p>Let the number of case be x and scooters be y</p> $4x + 2y = 2(x + y) + 100$ $4X + 2Y = 2X + 2Y + 100$ $2X = 100$ $X = 50$
59	C	
60	D	
61	A	
62	D	
63	B	
64	C	
65	C	
66	A	
67	A	
68	D	
69	D	
70	A	<p>Every month the expenditure is fixed 2400</p> $\therefore \text{Expected consumption} = \frac{2400}{80} = 30$
71	A	
72	A	

73	C	
74	D	
75	B	<p>Let he attempted x Questions more  <math>\therefore</math> Total questions = <math>8+x</math>  <math>50\%</math> of <math>8=40\%</math> of <math>(8+x)</math>                      From here get value of x and add it to 8 to get total nos of questions</p>
76	D	<p>Let son's age be x                      Fathers age = <math>9x</math>                      Mothers age = <math>8x</math>  <math>\therefore 9x+8x=51</math>  <math>17x=51</math>  <math>X=3</math>  <math>\therefore</math> Son's age = 3 years</p>
77	C	
78	A	
79	A	
80	B	