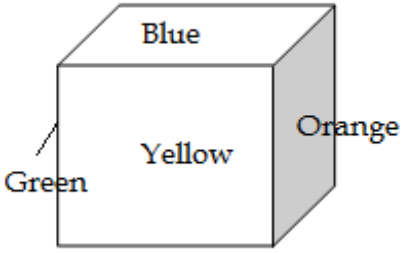


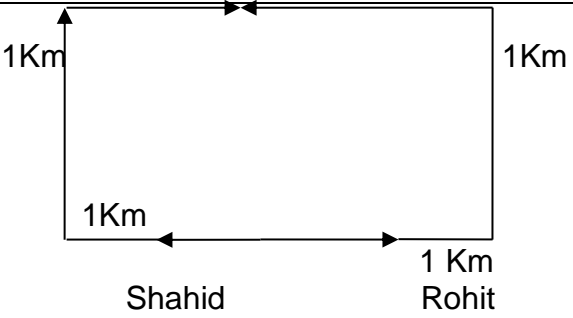
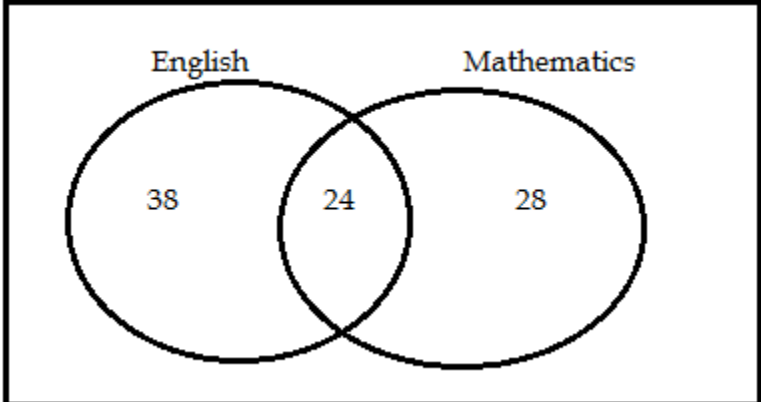
**UPSC Prelim-2015
CSAT Paper-II (B-Series) Answers with Explanation**

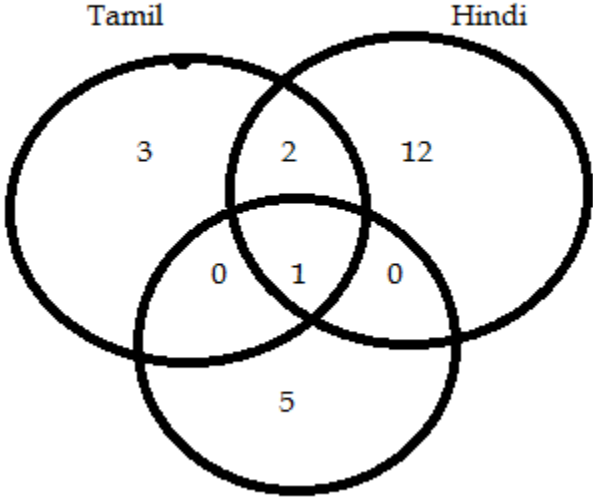
Q. No.	Ans.	Explanation
1	D	
2	D	
3	A	
4	A	
5	C	
6	A	
7	A	
8	C	
9	C	Task-I (Person 1 or2) Task-II Assigned to (Person 3or4) Task-III Task-IV Task-V Revised answer = $L3 \times 4 = 24$
10	A	Let Income of Peter and Paul be $4x$ & $3x$ and their expenditure by $3y$ & $2y$ $4x - 3y = 6000$ 1...x2 $3x - 2y = 6000$ 2...x3 $+x = +6000$ \therefore Income of Peter & Paul = 24000×18000
11	B	Average Speed = $\frac{2 \times 40 \times 60}{60 + 40} = 48 \text{Km/hr}$
12	B	
13	A	
14	C	Here factorize 24 which is 6×4 now if 6 are boys and 4 girls then total handshakes among boys and girls = $6 \times 4 = 24$ Boys will hug among themselves = $5 + 4 + 3 + 2 + 1 = 15$ Girls will hug among themselves = $3 + 2 + 1 = 6$ \therefore Total hug = $15 + 6 = 21$ ways
15	D	Shabnam \longrightarrow Marathi Anil \longrightarrow Tamil Then either Rekha or David speaks either Marathi or Tamil and both drives car thus option D is correct.
16	D	

17	D											
18	B	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Fighters</td> <td style="width: 50%;">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											
19	B	White Marbles = 10 Red Marbles = 13 Green Marbles = 5 \therefore Total Marbles = 28										
20	C	Let total be 100 \therefore 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 $\frac{70 \times 30}{100} = 21$ \therefore Men's final result is more than women										
21	B											
22	D	-										
23	C											
24	B											
25	B											
26	D											
27	B											
28	D	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Principal</u></td> <td style="text-align: center;"><u>V.P</u></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td colspan="2">$2C_1 \times 5C_2$</td> </tr> <tr> <td style="text-align: center;">$\frac{L^2}{L1 \times L2}$</td> <td style="text-align: center;">$\times \frac{L5}{L3 \times L2}$</td> </tr> <tr> <td colspan="2">$1 \times \frac{120}{6} = 20$</td> </tr> </table>	<u>Principal</u>	<u>V.P</u>	1	2	$2C_1 \times 5C_2$		$\frac{L^2}{L1 \times L2}$	$\times \frac{L5}{L3 \times L2}$	$1 \times \frac{120}{6} = 20$	
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$1 \times \frac{120}{6} = 20$												
29	C	$\frac{4C_2 + 2C_2}{\frac{L4}{L2 \times L2} + \frac{L2}{L0 \times L2}}$ $\frac{24}{4} + 1 = 7$										
30	D	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
31		
32	A	
33	B	$\frac{20 \times 30}{(20 + 30)} = \frac{600}{50} = 12 \text{ Mins}$
34	C	<p>From the statements 1 and 3 we can conclude O is opposite to G.</p> 
35	D	
36	D	
37	C	
38	C	
39	C	<p>Money spend by family A on food = $\frac{50}{100} \times 20000 = 10,000$ Money spent by family B on food = $\frac{10}{100} \times 100000 = 10,000$ Both are same</p>
40	B	<p>USHA > KAMALA SWATI > PRITI KAMAL > SWATI ∴ USHA > KAMALA > SWATI > PRITI</p>
41	A	
42	D	
43	B	
44	C	
45	C	
46	A	
47	A	
48	D	
49	D	

50	A	Every month the expenditure is fixed 2400 ∴ Expected consumption = $\frac{2400}{80} = 30$
51	A	
52	A	
53	C	
54	D	
55	B	Let he attempted x Questions more ∴ Total questions = 8+x 50% of 8 = 40% of (8+x) From here get value of x and add it to 8 to get total nos of questions
56	D	Let son's age be x Fathers age = 9x Mothers age = 8x ∴ 9x+8x=51 17x=51 X=3 ∴ Son's age = 3 years
57	C	
58	A	
59	A	
60	B	
61	A	
62	D	
63	C	
64	B	
65	C	
66	D	
67	C	
68	B	
69	B	
70	C	
71	C	$N(A \cup B \cup C) = 45 + 55 + 40 - 30 - 15 - 25 + 10 = 80$ ∴ $N(A \cup B \cup C) = 100 - 80 = 20$
72	D	
73	B	1 Km 1Km

		 <p>1Km 1Km</p> <p>1Km 1 Km</p> <p>Shahid Rohit</p> <p>After Travelling 3 Km each both meets.</p>
74	A	<p>In unit time when A travels = 500 metres B travels = 420 metres \therefore Ratio of their speeds = 500 : 420 = 25:21</p>
75	A	$\left(\frac{1}{3} + \frac{1}{4}\right) : \left(\frac{2}{3} + \frac{3}{4}\right)$
76	A	 <p>English Mathematics</p> <p>38 24 28</p> <p>\therefore The number of student who passed finally = $130 - (38 + 24 + 28)$ $= 130 - 90 = 40$</p>

77	C	<div style="text-align: center;">  <p>The Nos of Persons = 3+2+12+5=23</p> </div>
78	C	<p>Let the number of case be x and scooters be y</p> $4x + 2y = 2(x + y) + 100$ $4X + 2Y = 2X + 2Y + 100$ $2X = 100$ $X = 50$
79	C	
80	D	