Parul University
Faculty of Engineering and Technology
Department of Applied Science & Humanities
Academic Year 2025-26
Subject: Quant and Reasoning (303105311)
Branch: CSE/ IT
Assignment-2

1.	10 men can do a work in 12 days. Find the time required to do 20% of the work working twice as fast as before.
2.	A pipe can fill a tank in 12 hours. Due to leakage at the bottom, it is filled in 24 hours. If the tank is full, how much time will the leak take to empty it?
3.	While going to office, Ramesh travels at a speed of 30 kmph and on his way back, he travels at a speed of 45 kmph. What is his average speed of the whole journey?
4.	The ratio between the speeds of two trains is 7:8. If the second train runs 400 km in 4 hours, then find the speed of the first train.
5.	A boat goes 13 Km upstream in 39 minutes. The speed of stream is 3 Km/h. Find the speed of boat in still water.
6.	In how many ways a committee consisting of 5 men and 3 women, can be chosen from 9 men and 12 women?
7.	Find the number of ways the letters of the word 'RUBBER can be arranged?
8.	Draw a random card from a pack of cards. What is the probability that the card drawn is a face card?
9.	Sowmya Krishnan walked 20 m towards the north. Then she turned right and walks 30 m. Then she turns right and walks 35 m. Then she turns left and walks 15 m. Finally she turns left and walks 15 m. In which direction and how many meters is she from the starting position?
10.	Eight persons- L, M, N, O, P, Q, R, and S are sitting at the circular table facing outside but not necessarily in the same order. P sits second to the right of R. Two persons are sitting between S and Q. Q sits adjacent to R. M sits third to the right of L. M and P are not immediate neighbors. L sits second to the left of O. The number of persons sitting between N and M is the same as between N and S. 1. How many people sit between N and M when counted from the right of N? 2. What is the position of P with respect to O?
11.	If this year is a Leap Year and 1 January is Monday. After How Many year 1 Jan will be on Monday?
12.	The clock is started at noon. By 10 minutes past 5, Find the hour hand has turned through?
13.	Two adjacent faces of a solid cube are painted yel- low. The faces opposite to these are painted with red color and the remaining faces are painted black. This cube is now cut into 64 small cubes, out of these how ma ny cubes will have only 1 face painted?
14.	Ranjana said to a woman, "My father is the paternal grandfather of your son Piyush". How is Piyush related to Ranjana?
15.	F : 216 :: L : ?