

REASONING**MATHEMATICAL VENN DIAGRAMS – II****Questions 1 – 3:**

In a batch of 120 students, 50 passed in Physics, 40 failed only in History and 25 failed in both.

- 1) How many students passed in History?
a) 80 b) 60 c) 55 d) 45
- 2) How many of them failed in exactly one subject?
a) 110 b) 85 c) 10 d) 50
- 3) How many students did not pass in Physics?
a) 45 b) 95 c) 70 d) 25

Questions 4 - 5:

In a ready-made shop 45% of the shirts are made from cotton and 60% are from rayon. 10 shirts are neither cotton nor rayon and 20 shirts are made using both cotton as well as rayon.

- 4) How many of the shirts are made of using only rayon?
a) 60 b) 90 c) 120 d) 100
- 5) How many of the shirts are made of using at least one of the material cotton or rayon?
a) 190 b) 20 c) 170 d) 70

Questions 6 - 9:

300 police cars in Atlanta are equipped with three features. 120 are Undercover Cars, 180 are Bullet Proof, 165 are Wireless Mounted and 15 have none of the three features mentioned above. 150 cars have only one among the three features.

- 6) How many cars have all the three features?
a) 25 b) 15 c) 30 d) 45
- 7) If 100 cars are Bullet proof and Undercover, then how many of them have Wireless alone?
a) 85 b) 90 c) 165 d) None of these
- 8) What is the maximum possible number of cars with only Bullet proof feature?
a) 130 b) 105 c) 120 d) 180
- 9) If 50 cars are Undercover only, then how many cars have at least one of those functions Bullet proof and Wireless?
a) 290 b) 235 c) 165 d) None of these

Questions 10 - 11:

In a cafeteria, 50% of the visitors eat Toast and 40% of those who eat Toast eat Salad also. $66\frac{2}{3}\%$ of those who eat Salad do not eat Toast. 10 visitors neither eat Toast nor Salad.

- 10) How many visitors eat at most one among these two items?
a) 70 b) 20 c) 80 d) None of these
- 11) The visitors who eat only Toast is what percentage of the visitors who eat Salad?
a) 60% b) 200% c) 100% d) 50%

Answers:

- 1) c (55)
- 2) b (85)
- 3) c (70)
- 4) d (100)
- 5) a (190)
- 6) d (45)
- 7) a (85)
- 8) c (120)
- 9) b (235)
- 10) c (80)
- 11) d (50%)