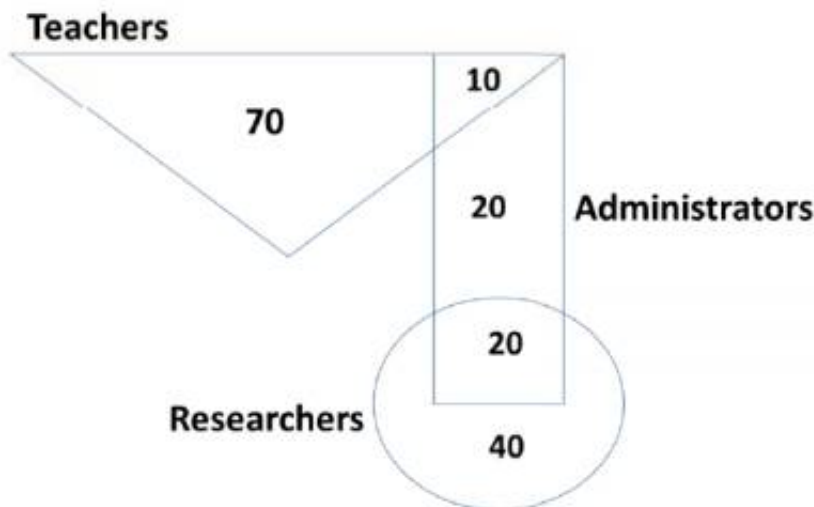


## GATE Aptitude Practice Questions Venn diagram

**Q.No. 1** In a sports academy of 300 people, 105 play only cricket, 70 play only hockey, 50 play only football, 25 play both cricket and hockey, 15 play both hockey and football and 30 play both cricket and football. The rest of them play all three sports. What is the percentage of people who play at least two sports?

- (A) 23.30                      (B) 25.00                      (C) 28.00                      (D) 50.00

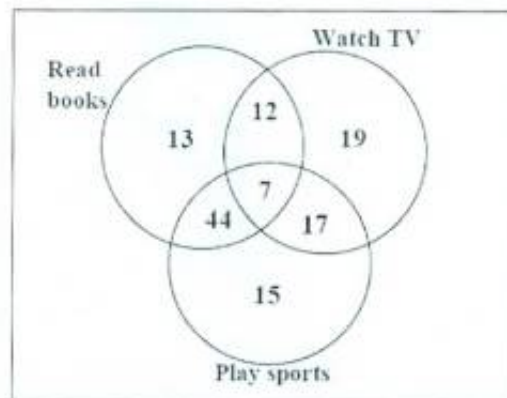
**Q.No. 2** In the given diagram, teachers are represented in the triangle, researchers in the circle and administrators in the rectangle. Out of the total number of the people, the percentage of administrators shall be in the range of \_\_\_\_\_.



- (A) 0 to 15                      (B) 16 to 30                      (C) 31 to 45                      (D) 46 to 60

- Q.No. 3** In a college, there are three student clubs. Sixty students are only in the Drama club, 80 students are only in the Dance club, 30 students are only in the Maths club, 40 students are in both Drama and Dance clubs, 12 students are in both Dance and Maths clubs, 7 students are in both Drama and Maths clubs, and 2 students are in all the clubs. If 75% of the students in the college are not in any of these clubs, then the total number of students in the college is \_\_\_\_\_.
- (A) 1000                      (B) 975                      (C) 900                      (D) 225
- Q.No. 4** To pass a test, a candidate needs to answer at least 2 out of 3 questions correctly. A total of 6,30,000 candidates appeared for the test. Question A was correctly answered by 3,30,000 candidates. Question B was answered correctly by 2,50,000 candidates. Question C was answered correctly by 2,60,000 candidates. Both questions A and B were answered correctly by 1,00,000 candidates. Both questions B and C were answered correctly by 90,000 candidates. Both questions A and C were answered correctly by 80,000 candidates. If the number of students answering all questions correctly is the same as the number answering none, how many candidates failed to clear the test?
- (A) 30,000                      (B) 2,70,000                      (C) 3,90,000                      (D) 4,20,000
- Q.No. 5** 500 students are taking one or more courses out of Chemistry, Physics, and Mathematics. Registration records indicate course enrolment as follows: Chemistry (329), Physics (186), Mathematics (295), Chemistry and Physics (83), Chemistry and Mathematics (217), and Physics and Mathematics (63). How many students are taking all 3 subjects?
- (A) 37                      (B) 43                      (C) 47                      (D) 53
- Q.No. 6** Among 150 faculty members in an institute, 55 are connected with each other through Facebook<sup>®</sup> and 85 are connected through WhatsApp<sup>®</sup>. 30 faculty members do not have Facebook<sup>®</sup> or WhatsApp<sup>®</sup> accounts. The number of faculty members connected only through Facebook<sup>®</sup> accounts is \_\_\_\_\_.
- (A) 35                      (B) 45                      (C) 65                      (D) 90

**Q.No. 7** The Venn diagram shows the preference of the student population for leisure activities.



From the data given, the number of students who like to read books or play sports is \_\_\_\_\_.

- (A) 44                      (B) 51                      (C) 79                      (D) 108

**Q.No. 8** There are 16 teachers who can teach Thermodynamics (TD), 11 who can teach Electrical Sciences (ES), and 5 who can teach both TD and Engineering Mechanics (EM). There are a total of 40 teachers. 6 cannot teach any of the three subjects, i.e. EM, ES or TD. 6 can teach only ES. 4 can teach all three subjects, i.e. EM, ES and TD. 4 can teach ES and TD. How many can teach both ES and EM but not TD?

- (A) 1                      (B) 2                      (C) 3                      (D) 4

**Answer Key**

Q. No.	Ans.
1	B
2	C
3	C
4	D
5	D
6	A
7	D
8	A

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