

QUANTITATIVE TECHNIQUES

Passage 1

Ratio of number of male and female employees in company A is 4:3 respectively. Total number of employees in company C is 120 less than that of company A. Total number of employees in company B is 25% more than that of company D. In company B, the number of female employees is 90 more than that of males. Ratio of the number of male to female employees in company D is 7:5 respectively. Average number of male employees in companies A and C together is 110. Total number of employees in company D is six times the number of male employees in company C. Total number of employees in company C is 160.

1. If the ratio of the number of male employees in companies B and E is 6:7 respectively and the number of female employees in company E is 20% more than that of company D, then find the total number of employees in company E.

(a) 390	(b) 330
(c) 310	(d) 360

2. Number of male employees in companies A and D together is how much more than the number of female employees in company B?

(a) 210	(b) 350
(c) 240	(d) 100

3. Out of the total number of employees in company B, 20% of the employees are PG and the remaining employees are UG. If the ratio of the number of male employees in company B for UG to PG is 7:2, then find the number of female employees in company B are UG.

(a) 310	(b) 170
(c) 220	(d) 100

4. Find the difference between the total number of employees in company B and the number of female employees in companies A and C together.

(a) 170	(b) 230
(c) 310	(d) 350

5. Find the ratio of the total number of employees in company C and the average number of male employees in companies B and C together.

(a) 4:3	(b) 2:1
(c) 5:6	(d) 7:8

Passage 2

Every year, a survey of 2000 people is conducted by the National Health Agency. found that in the year 2005, 2006, 2007, 2008 and 2009 the percentage of people affected by dengue were 30%, 40%, 30%, 20% and 45% respectively. WHO also found that every year out of the affected people 60% were students, 10% were house-wives and 30% were drivers. The number of house-wives, students and drivers were in the ratio 20 : 11 : 9, every year.

6. In the year 2007, find the number of students affected by Dengue?

(a) 360	(b) 330
(c) 350	(d) 110

7. In the year 2006, find the number of drivers who were not affected by Dengue?

(a) 220	(b) 215
(c) 145	(d) 210

8. What is the difference between the number of house wives affected and not affected by Dengue in the year 2008?

(a) 40	(b) 960
(c) 900	(d) 920

9. Find the ratio of the number of students affected by Dengue in the year 2006 to that affected by Dengue in the year 2007.
- (a) 5:3 (b) 9:4
(c) 3:2 (d) 4:3
10. What is the average of non affected house wives in 2005, 2007 and 2008 together?
- (a) 940 (b) 945
(c) 960 (d) 935

Passage 3

In a school cultural program, the students participated in four different events. Total number of students in the school is 200. Ratio of the number of boys to girls in the school is 3:2. The number of boys participated in Singing is 20% of the total number of boys in the school. Total number of students participated in dance is 54. 25% of the girls participated in Drama and the ratio of the number of girls participated in Singing to Speech is 5:9. Ratio of the number of boys to girls participated in Drama is 2:1. The number of boys participated in Dance is 16 more than the number of boys participated in Speech.

11. Find the total number of students participated in singing competition?
- (a) 32 (b) 35
(c) 39 (d) 37
12. What is the ratio of the number of boys to girls participated in Speech?
- (a) 2:3 (b) 5:4
(c) 4:5 (d) None of these
13. The number of boys participated in Dance is what percent of the total number of girls in the school?
- (a) 40% (b) 30%
(c) 35% (d) 45%
14. What is the ratio of the number of girls to boys participated in Singing and Speech together?
- (a) 19:20 (b) 21:22
(c) 22:23 (d) None of these
15. The number of students participated in Dance is what percent of the number of students participated in Drama?
- (a) 85% (b) 87%
(c) 90% (d) 93%