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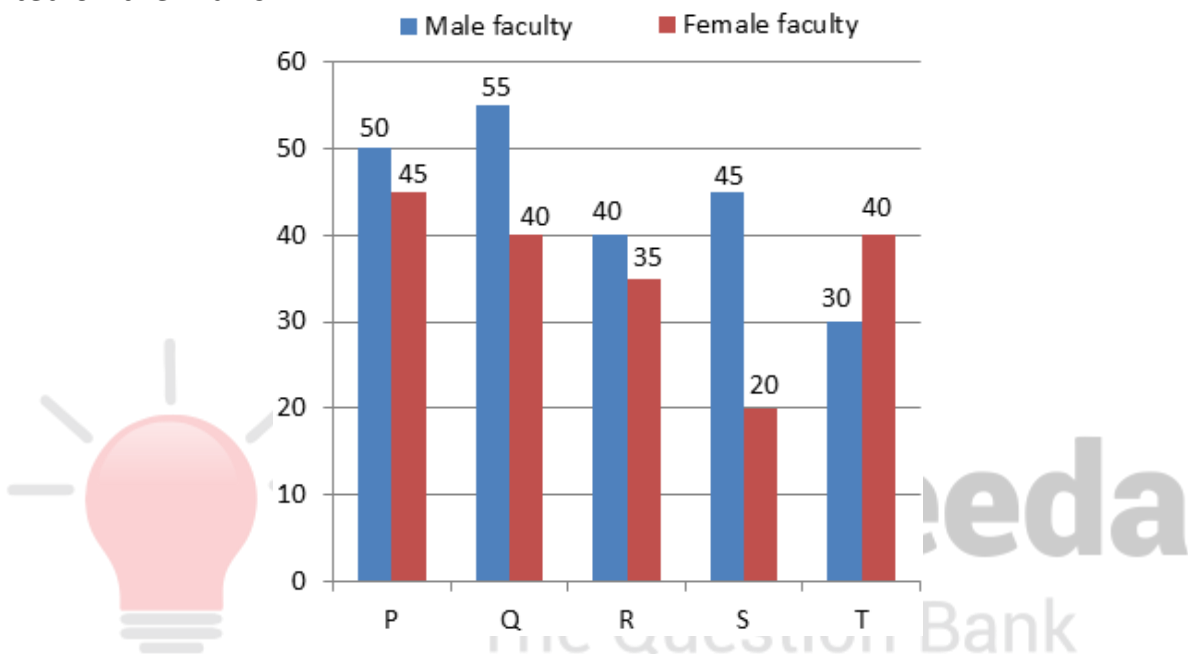
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Maths Questions for CLAT Exam.

CLAT Maths Quiz 4

Directions : Study the following bar chart carefully and answer the questions given beside.

The graph given below shows the number of male and female faculties in 5 different colleges represented on the X-axis.



1. What is the average number of female faculties in colleges P, R and T?
A. 38 B. 40 C. 45 D. 36
2. What is the difference between total male faculties in college Q and R and female faculty in college P?
A. 45 B. 50 C. 55 D. 48
3. Total male faculties in colleges P, Q and R together is what percent more than female faculty in colleges P, Q and S together?
A. 32.19% B. 33.22% C. 35.43% D. 38.09%
4. The number of male faculties in college U is 10% more than male faculty in college T and the number of female faculty in college U is 10% more than female faculty in college Q. Find the ratio of number of male to female faculties in college U?
A. 4 : 5 B. 1 : 5 C. 2 : 3 D. 3 : 4

5. Total number of faculties (Male + female) in college S is what percent of total number of faculties (Male + female) in college P?
- A. 66.50% B. 64.34% C. 68.42% D. 67.20%
6. What is the ratio of the number of male faculties in college P to that of female faculties in college Q?
- A. 5 : 2 B. 4 : 5 C. 2 : 5 D. 5 : 4
7. In which of the following colleges is the number of male faculties highest?
- A. P B. S C. R D. Q
8. 10 faculties of college R leave the college in such a way that the ratio of the number of male faculties to that of female faculties in that college becomes 7 : 6. How many male faculties are there amongst those 10 faculties?
- A. 4 B. 6 C. 8 D. 5
9. In how many colleges is the number of male faculties less than the average number of male faculties in all five colleges?
- A. 3 B. 4 C. 1 D. 2
10. The number of male faculties in college T is what percent less than that of female faculties in college T?
- A. 33.33 B. 30 C. 35 D. 25

Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	B	D	D	C	D	D	D	D	D



Explanations :

1. Female faculties in colleges P, R and T = $45 + 35 + 40 = 120$

$$\text{Reqd. average} = \frac{120}{3} = 40$$

Hence, option B is correct.

2. Number of male faculties in colleges Q and R = $55 + 40 = 95$

Number of female faculties in college P = 45

$$\text{Required difference} = 95 - 45 = 50$$

Hence, option B is correct.

3. Number of male faculties in colleges P, Q and R = $50 + 55 + 40 = 145$

Number of female faculties in colleges P, Q and S = $45 + 40 + 20 = 105$

$$\text{Ratio} = 145 : 105 = 29 : 21$$

$$\text{Reqd. \%} = \frac{8 \times 100}{21} = 38.09\%$$

Hence, option D is correct.

4. Male faculties in college U = $30(1.1) = 33$

Female faculties in college U = $40(1.1) = 44$

$$\text{Required ratio} = 33 : 44 = 3 : 4$$

Hence, option D is correct.



5. Total number of faculties in college S = $45 + 20 = 65$

Total number of faculties in college P = $50 + 45 = 95$

$$\text{Reqd. \%} = \frac{65 \times 100}{95} = 68.42\%$$

Hence, option C is correct.

6. Number of Male faculty in college P = 50

Number of female faculty in college Q = 40

$$\text{Reqd. Ratio} = 50 : 40 = 5 : 4$$

Hence, Option D is correct.

7. On observing carefully, it can be concluded that Q has the highest number of male faculty.

Hence, Option D is correct.

8. Total number of faculties in college R = $40 + 35 = 75$

After leaving,

Male faculties = $7x$ and female faculties = $6x$

$$7x + 6x + 10 = 75$$

$$x = 5$$

Male faculties remains = $7 \times 5 = 35$

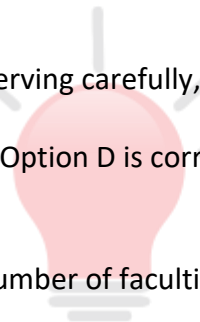
$$\text{Thus, Reqd. Answer} = 40 - 35 = 5$$

Hence, Option D is correct.

9. Average number of male faculties = $(50 + 55 + 40 + 45 + 30)/5 = 44$

Thus, the number of faculties in College R and T is less than the average number of male faculties.

Hence, Option D is correct.



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10. Req. % = $(40 - 30)/40 \times 100\% = 25\%$

Hence, Option D is correct.



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