CASELET

Direction (1): Study the information carefully and answer the following questions.

A total of 1650 employees are working in a company in different departments. The ratio of male employees to female employees in the organisation is 86 : 79. There are total 5 departments in the company i.e. Product Devlopment, Sales and marketing, R& D and reinvestment, 'Finance' and HR. Total 198 males work in "Product Devlopment department". 18% employees works in Sales and marketing department, in which male to female ratio is 5 : 4. In Finance department, 77 males are working and the number of females in this department is 5/7 of the number of males. The number of males in Sales and marketing department is equal to number of females in Product Devlopment department. The number of males of Finance department is half of the number of males in HR department. Male to female ratio in R& D and reinvestment department is 14 : 19.

1. If the 5/12 of the females of the Sales and marketing department are shifted in HR department. Then males in HR department is what times of no. of females in the same department. (round off to 2 decimal places).
   (A) 1.07   **(B)** 1.17
   (C) 1.27   **(D)** 1.37
   (E) 1.32

Direction (2-6): Study the information carefully and answer the questions.

A school consists of 2800 students. The ratio of boys to girls is 5 : 9. All the enrolled students have at least one favourite place — Darjeeling, Singapore and Paris. 12% of the boys like only Singapore. 16% of the girls like only Darjeeling. The number of students who like only Paris is 925. One-fourth of the boys like only all the three places. The number of girls who like only Singapore is 250% of the boys who like only the same city. The remaining girls like only all the three places. 23% of enrolled boys like only Darjeeling and the remaining like only Paris. No student likes any combination of only two cities.

2. What is the ratio of the number of boys who like only Darjeeling to the number of girls who like only the same place?
   (A) 144 : 115   **(B)** 115 : 144
   (C) 110 : 113   **(D)** 110 : 113
   (E) 113 : 110

3. What is the number of girls who like all three places?
   (A) 1212   **(B)** 812
   (C) 1012   **(D)** 1112
   (E) None of these

4. The number of boys who like only Paris is what per cent of the no. of girls who like only the same city? (Approx.)
   (A) 76   **(B)** 73
   (C) 78   **(D)** 82
   (E) None of these

5. How many students like Singapore?
   (A) 670   **(B)** 1120
   (C) 1882   **(D)** 656
   (E) None of these

6. How many boys like Darjeeling?
   (A) 400   **(B)** 420
   (C) 440   **(D)** 480
   (E) None of these

Direction (7-12): Study the given information carefully to answer the given question.

M, N, O, P, Q, R and S are seven people live on seven different floors of a building but not necessarily in the same order. The lower most floor of the building is numbered 1, the one above that is numbered 2 and so on till the topmost floor is numbered 7. Each one of them have different income i.e. 3500, 15000, 7500, 9000, 11000, 13500 and 5000. (But not necessarily in the same order.)

M lives on an odd numbered floor but not on the floor numbered 3. The one who has income of 11000 lives immediately above M. Only two people live between M and the one who has income of 7500.

The one, who has income of 15000 lives on one of the odd numbered floors above P. P lives on odd numbered floor. Only three people live between O and the one who has income of 15000. The one, whose income is 7500 lives immediately above O. The one, who has income of 3500 lives immediately above the one, who has income of 5000. S lives on an odd numbered floor but not on 3rd floor. Only one person lives between N and Q. N lives on one of the floors above Q. Neither O nor M has income of 9000. Q does not has income of 7500.

7. How much income M has?
(A) 13500 (B) 5000
(C) 7500 (D) 15000
(E) 3500

8. Which of the following combinations is true with respect to the given arrangement?
(A) 13500 - O (B) 15000 – R
(C) 5000 - S (D) 11000 – P
(E) 9000 - N

9. If all the people are made to sit in alphabetical order from top to bottom, the positions of how many people will remain unchanged?
(A) Four (B) None
(C) Two (D) One
(E) Three

10. Which of the following statements is true with respect to the given arrangement?
(A) The one who has income of 5000 lives immediately below M.
(B) R has income of 15000.
(C) None of the given options is true.
(D) Only four people live between P and S.
(E) S lives immediately below Q.

11. Who amongst the following lives on the floor numbered 2?
(A) N
(B) The one who has income of 3500
(C) The one who has income of 5000
(D) P
(E) R

12. How much income R has?
(A) 13500 (B) 5000
(C) 7500 (D) 15000
(E) 3500

Direction (13-17): Read the given information carefully and answer the following questions.

There are four hostels i.e. A, B, C and D.
In hostel A: Number of boys are 120 and number of girls are 30% more than that of number of girls in hostel B.
In hostel B: Number of boys are double than that of number of girls.
In hostel C: Number of boys are 100 more than that of boys in hostel A and total boys and girls in C is 1000.
In hostel D: Number of boys is 182 more than the number of boys in hostel A. Average of number of girls of hostel A and

that of hostel D is 223.Number of boys in hostel D is 98 less that of boys in hostel B.

13. Difference between number of boys and girls in hostel D is what percent of difference between boys and girls in hostel B?
(A) 3%   **(B)** 58%
(C) 63%   **(D)** 60%
(E) 57.5%

14. Find difference between total number of boys and girls together in hostel A and that in hostel D?
(A) 108   **(B)** 118
(C) 112   **(D)** 98
(E) 128

15. Find ratio of total number of boys and girls together in hostel B to that of in hostel C?
(A) 3: 5   **(B)** 2: 5
(C) 3: 4   **(D)** 4: 5
(E) 6: 5

16. If 20 boys from each hostel left their hostel then find the average of remaining number of boys in all the hostels?
(A) 239.5   **(B)** 235
(C) 250.5   **(D)** 240.5
(E) 245.5

17. Total number of boys in hostel A and that of girls in hostel C is what percent more than number of boys in hostel B?
(A) 100%   **(B)** 125%
(C) 150%   **(D)** 137.5%
(E) 175%

Direction (18-20): Study the given information carefully and answer the question that follow.

3 pizza shops A, B and C sells veg pizza and non veg pizza. Respective ratio between number of vegetarian and non-vegetarian pizzas sold by pizza shop A was 9 : 7 and that sold by pizza shop B was 3 : 4. The no. of pizzas (Veg + non veg) sold by pizza shop C was 108 and respective ratio between number of vegetarian and non-vegetarian pizza sold by pizza shop C was 7 : 5 Total number of pizza sold by all three pizza shop was 376. Number of veg pizza sold by pizza shop A was 20% more than the veg pizza sold by pizza shop B.

18. If cost of each veg pizza and each non-veg pizza sold by shop B is Rs 200 and Rs 300 respectively then find the total amount obtained by shop B (in Rs).
(A) 40,000   **(B)** 36000
(C) 48000   **(D)** 32000
(E) 44000

19. What is the ratio of veg pizza sold by shop A & C together to the non-veg pizza sold by shop B & C together.
(A) 27 : 25   **(B)** 27 : 29
(C) 29 : 27   **(D)** 25 : 27
(E) 23 : 25

20. What is the average of veg pizza sold by all shops?
(A) 61   **(B)** 68
(C) 62   **(D)** 60
(E) 65