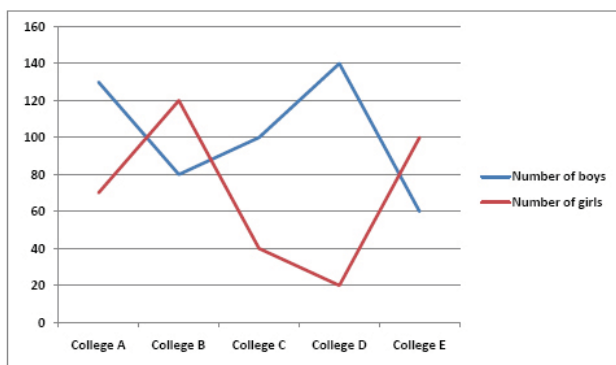


**Memory Based
Paper of
IBPS PO
Prelims 2017**

Quantitative Aptitude

Memory Based Quantitative Aptitude Paper of IBPS PO Prelims 2017

Directions(Q.1–5) Study the following information carefully and answer the given questions: The following line graph shows the total number of boys and girls studying in different colleges in a certain year.



1. Find the average number of boys in college A, B and E together?

- (a) 110
- (b) 120
- (c) 90
- (d) 130
- (e) None of these

2. Find the ratio of total number of boys in college B to that of total number of girls in college E?

- (a) 4 : 5
- (b) 5 : 6
- (c) 2 : 3
- (d) 3 : 4
- (e) None of these

3. Total number of girls in college E is approximately what percentage of total number of boys in college D?

- (a) 95 %
- (b) 105 %
- (c) 55 %
- (d) 70 %
- (e) 80 %

4. Find the difference between the number of boys in college D to that of the number of girls in college A?

- (a) 90
- (b) 70
- (c) 100
- (d) 115
- (e) None of these

5. If 25 % of students in college C are unskilled, in which 23 girls are unskilled, then find the number of skilled boys in college C?

- (a) 88
- (b) 56
- (c) 64
- (d) 72
- (e) None of these

Directions (Q. 6 – 10) find the wrong term in the following number series?

6. 6, 13, 30, 56, 94, 141

- (a) 56
- (b) 94
- (c) 141
- (d) 13
- (e) 30

7. 18, 20, 16, 24, 6, 40

- (a) 20
- (b) 18
- (c) 16
- (d) 24
- (e) 6

8. 0.5, 2, 1, 4, 32, 512, 16384

- (a) 32
- (b) 512
- (c) 16384
- (d) 2
- (e) 4

9. 2, 3, 8, 31, 154, 924, 6460

- (a) 31
- (b) 924
- (c) 154
- (d) 6460
- (e) 8

10. 11, 15, 31, 66, 131, 231

- (a) 15
- (b) 31
- (c) 66
- (d) 131
- (e) 231

Directions (Q. 11- 15) In the following questions, two equations I and II are given. You have to solve both the equations and give Answer as,

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or the relation cannot be established

11.

- (i) $2x^3 = \sqrt{256}$
- (ii) $2y^2 - 9y + 10 = 0$

12.

- (i) I) $6x^2 - 11x + 4 = 0$
- (ii) II) $3y^2 - 5y + 2 = 0$

13.

- (i) $2x^2 + 9x + 9 = 0$
- (ii) $15y^2 + 16y + 4 = 0$

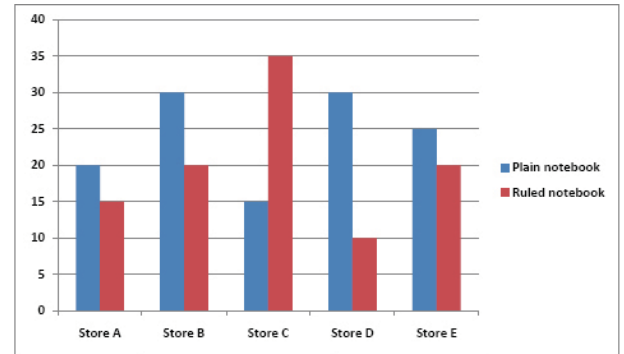
14.

- (i) $12x^2 + 11x + 2 = 0$
- (ii) $12y^2 + 7y + 1 = 0$

15.

- (i) $21x^2 + 10x + 1 = 0$
- (ii) $24y^2 + 26y + 5 = 0$

Directions (Q.16 – 20) Study the following information carefully and answer the given questions: The following bar graph shows the plain and ruled note books (In hundreds) stock in different stores and the table shows the (Plain + Rulenotebooks sold by the different stores.



Note books (Plain + Ruled)	Sold %
Store A	20%
Store B	40%
Store C	30%
Store D	40%
Store E	50%

16. Find the average number of plain notebooks in store B, C and D together?

- (a) 2200
- (b) 2000
- (c) 2500
- (d) 1800
- (e) None of these

17. Find the difference between the (Plain + Rulenotebooks sold by store A to that of store C?

- (a) 550
- (b) 900
- (c) 1050
- (d) 800
- (e) None of these

18. Find the ratio of the number of (Plain + Rulenotebooks sold by store B to that of store D?

- (a) 4 : 7
- (b) 5 : 4

- (c) 3 : 2
- (d) 9 : 8
- (e) None of these

19. Find the number of (Plain + Ruled) notebooks unsold in store C?

- (a) 3500
- (b) 4200
- (c) 2800
- (d) 2500
- (e) None of these

20. The total number of Ruled notebooks in store B is what percentage of total number of Plain notebooks in store E?

- (a) 55 %
- (b) 100 %
- (c) 80 %
- (d) 90 %
- (e) None of these

21. P, Q and R started a business by investing in the ratio of 3 : 4 : 5. After 6 months, Q invested 50 % more than the initial investment and after 2 months, P withdraw one – third of the initial investment. Find the total profit, if the share of P after one year is Rs. 40000?

- (a) Rs. 175000
- (b) Rs. 182000
- (c) Rs. 190000
- (d) Rs. 188000
- (e) None of these

22. Two pipes A and B can fill a tank in 20 hours and 25 hours respectively, while a third pipe C can empty 70% of the tank in 21 hours. All three pipes are opened in the beginning. After 12 hours C is closed. Find the time in which the tank will be full?

- (a) $13 \frac{2}{3}$ hours
- (b) $11 \frac{7}{8}$ hours
- (c) $16 \frac{3}{4}$ hours
- (d) $15 \frac{5}{9}$ hours
- (e) None of these

23. Santhosh bought a chair and spent Rs. 100 on its repairs. Then he sold it to Ragu at a profit of 20% and then he sold it to Suresh at a loss of 10%. Suresh finally sold it for Rs. 1782 at a profit of 10%. How much amount did Santhosh initially pay for the chair?

- (a) Rs. 1400
- (b) Rs. 1500
- (c) Rs. 1350
- (d) Rs. 1250
- (e) None of these

Directions (Q. 24 – 28) Study the following information carefully and answer the given questions: A man invested Rs. 30000 in a scheme at 20 % compound interest for 2 years. After 2 years he withdraws all his money. From that money, he purchased a Bike worth Rs. 32000. And with remaining amount, 10 % in mutual funds and with remaining money, he purchased 2 watches W1 and W2 for an equal amount. He sells watch W1 at 10 % profit and watches W2 at 20 % profit.

24. Find the amount received after 2 years of his investment?

- (a) Rs. 43200
- (b) Rs. 38500
- (c) Rs. 42300
- (d) Rs. 39600
- (e) None of these

25. Find the amount left after bought a bike?

- (a) Rs. 13500
- (b) Rs. 11200
- (c) Rs. 12800
- (d) Rs. 14600
- (e) None of these

26. Find the amount invested in mutual funds?

- (a) Rs. 1850
- (b) Rs. 1120
- (c) Rs. 2160
- (d) Rs. 2340
- (e) None of these

27. Find the Selling price of watch 1?

- (a) Rs. 5892
- (b) Rs. 5676
- (c) Rs. 5328
- (d) Rs. 5544
- (e) None of these

28. Find the Selling price of watch 2?

- (a) Rs. 6048
- (b) Rs. 5782

- (c) Rs. 5356
(d) Rs. 5570
(e) None of these
29. **A can do the work in 12 days and B can do the same work in 10 days and C can do it in 60/7 days. In how many days all together can do the work?**
(a) 7 days
(b) 8 days
(c) 5 days
(d) 6 days
(e) None of these
30. **A man rides a car at 50 km/hr and he reaches the destination after 3 hours. If he rides in the bike he reaches the destination after 2 hours, then find the speed of the bike?**
(a) 75 Km/hr
(b) 60 km/hr
(c) 65 km/hr
(d) 70 km/hr
(e) None of these
31. **A man sold a watch at 25 % profit. If he sold at 15 % extra profit he would get Rs. 240 as a profit extra. Then find the cost price of the watch?**
(a) Rs. 1800
(b) Rs. 1950
(c) Rs. 2250
(d) Rs. 1600
(e) None of these
32. **Two stations are 677 km apart from each other. Train A started at 2 pm at the speed of 59 km/hr and Train B started at 3.30 pm at the speed of 48 km/hr. For which time both the trains cross each other?**
(a) 6 Pm
(b) 7.30 Pm
(c) 7 Pm
(d) 8.30 Pm
(e) None of these
33. **The present age of A and B is in the ratio of 6 : 7. After 6 years, A is twice the age of B, 5 years ago. Find the present age of B?**
(a) 16 years
(b) 18 years
(c) 14 years
(d) 20 years
(e) None of these
34. **A boat can travel 55 km downstream in 66 min. The ratio of the speed of the boat in still water to the speed of the stream is 4 : 1. How much time will the boat take to cover 72 km upstream?**
(a) 2 hour 48 min
(b) 3 hour 12 min
(c) 2 hour 24 min
(d) 3 hour 28 min
(e) None of these
35. **A vessel contains milk and water in which 20% water. 20 liters of mixture was taken out and replaced by water and the ratio becomes 12:13. Find the initial quantity of milk in the vessel?**
(a) 40 liters
(b) 30 liters
(c) 50 liters
(d) 56 liters
(e) 60 liters