

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

Quantitative Aptitude

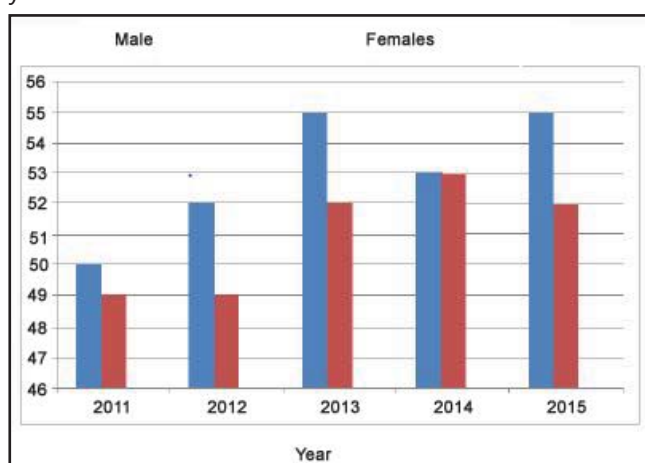
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Your Study Companion

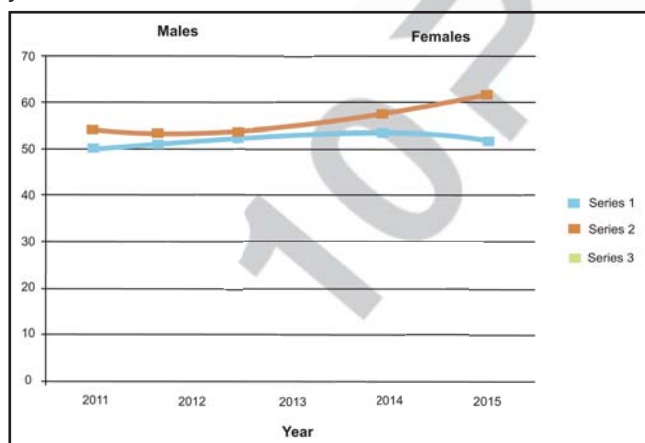
Memory Based Quantitative Aptitude Paper for IPPB PO Prelims 2017

Direction (1-5): Study the bar graph and line graph carefully to answer the questions given below.

The bar graph shows the number of males and females (in thousand) in town X during the given years.



The line graph shows the number of males and females (in thousand) in town Y during the given years.



1. What is the ratio of the average number of males in town X to the average of males in town Y for the given period?

- 269:282
- 265:281
- 265:283
- 265:282
- Other than the given options

2. In which of the following years, is the percentage increase or decrease in the number of females for town Y the minimum?

- 2015
- 2014
- 2012
- 2013
- Both 1) and 2)

3. The population of town X in 2011 and 2012 together is approximately what per cent of the population of town Y in 2014 and 2015 together?

- Other than the given options
- 81.6%
- 89.6%
- 84.5%
- 86.6%

4. Find the number of years in which the number of females in town X and Y are less than their respective average numbers.

- One, Two
- Two, Two
- None
- Three, Two
- Other than the given options

5. In which of the following pairs of years is the difference in the number of males and females the maximum for town Y and minimum for town X respectively?

- 2011 and 2014
- 2015 and 2011
- 2015 and 2014
- 2013 and 2015
- Other than the given options

Directions (6-10): In the following table the no. of registered voters are given from five states. Percentage of voters who cast their votes out of total voters is given. Ratio of male and female out of total voters registered are also given. Following data is from year 2016-

State	Total registered voters (in thousands)	% of voters who cast their votes	Male to female ratio (out of total voters who cast their vote)
UP	26500	83	3 : 2
Uttarakhand	13500	78	7 : 3
Goa	9200	91	1 : 1
Manipur	4900	79	4 : 3
Punjab	18500	88	2 : 3

6. Total no. of males who cast their votes from UP and Goa together are approximately what percentage more or less than the total no. of registered voters from Manipur?

- (a) 260%
- (b) 255%
- (c) 258%
- (d) 270%
- (e) 275%

7. If in year 2017, Total the no. of registered voters increased by 20% from Goa while Total no. of registered voters increased by 25% from UP then find the total no. of registered voters (in thousands) From Up and Goa together in 2017

- (a) 38970
- (b) 42170
- (c) 44165
- (d) 47195
- (e) None of these

8. Find the ratio between total number of females who cast their votes from Manipur and Uttarakhand together to the total no. of males who cast their votes from Goa and Manipur together?

- (a) 2409 : 3199
- (b) 3199 : 2409
- (c) 3231 : 1652
- (d) 1625 : 3243
- (e) None of these

9. Find the difference b/w the average no. of registered voters from U.P. and Punjab together and the total no. of voters registered from Uttarakhand and Manipur together?

- (a) 51 lakh
- (b) 43 lakh
- (c) 37 lakh
- (d) 41 lakh
- (e) 39 lakh

10. If 10% of the total no. of voters from Punjab are from minority and 45% of them are Sikh Community and remaining of them are from Hindu Community, then find the total no. of voters registered from Punjab who belong to Hindu Community?

- (a) 89.10 lakh
- (b) 87.25 lakh
- (c) 79.77 lakh
- (d) 81.50 lakh
- (e) 83.25 lakh

Direction (11-15): In each question two equations are provided, On the basis of these have to find the relation between x and y. Give answer

(a) if $x > y$

(b) if $x > y$

(c) if $x < y$

(d) if $x < y$

(e) if $x = y$ or no relationship between x and y can be established

11.

(i) $12x^2 - 55x + 63 = 0$

(ii) $8y^2 - 22y + 15 = 0$

12.

(i) $x^2 - 12x + 35 = 0$

(ii) $y^2 - 14y + 48 = 0$

13.

(i) $6x^2 - 43x + 73 = 0$

(ii) $y^2 - 8y + 15 = 0$

14.

(i) $12x^2 - 31x + 20 = 0$

(ii) $y^2 - 12y + 32 = 0$

15.

(i) $2x^2 - 11x + 15 = 0$

(ii) $2y^2 - 21y + 40 = 0$

16. Ravi goes downstream 120 km and upstream 40 km, taking 4 hrs each. What is the speed of current?
- (a) 10 kmph
(b) 20 kmph
(c) 25 kmph
(d) 30 kmph
(e) 35 kmph
17. Three buses travel same distance with speeds in the ratio 3 : 4 : 5. What is the ratio of the times taken by them to cover the distance?
- (a) 10 : 12 : 15
(b) 20 : 15 : 12
(c) 15 : 12 ; 20
(d) 15 : 15 : 20
(e) None of these
18. Chocolates are bought at 54 for a rupee. How much must be sold for a rupee so as to gain 50%?
- (a) 12
(b) 18
(c) 25
(d) 36
(e) 45
19. A bag contains 6 red and 4 blue balls. 2 balls are drawn one by one without replacement. What is the probability that the balls are alternately of different colors?
- (a) 8/15
(b) 2/15
(c) 4/15
(d) 9/15
(e) 12/15
20. Three pipes A, B and C can fill the tank in 10, 20 and 30 minutes respectively. If all the pipes are opened together and pipe B is turned off 5 minutes before the tank is full. Then find the time in which the tank will full.
- (a) $1\frac{8}{15}$
(b) $3\frac{2}{15}$
(c) $6\frac{4}{15}$
(d) $7\frac{5}{11}$
(e) $12\frac{1}{15}$
21. If the price of sugar is reduced by 10%. How many kilograms of sugar a person can buy with the same money which was earlier sufficient to buy 50 kg of sugar ?
- (a) 20.20 kg
(b) 35.36kg
(c) 55.55 kg
(d) 55.60 kg
(e) None of these
22. A Company makes a profit of Rs.3,80,000, 10% of which is paid as taxes. If the rest is divided among the partners A, B and C in the ratio 5:3:4 then the share of A is
- (a) 85500
(b) 85600
(c) 75600
(d) 65500
(e) None of these
23. What half of a number is added to 468, it becomes five time of itself. What is the number ?
- (a) 100
(b) 104
(c) 108
(d) 110
(e) 115
24. A Person after allowing a trade discount of 105 from the marked price, makes a profit of 17% His marked price is
- (a) 27 % above cost price
(b) 7 % above cost price
(c) 30 % above cost Price
(d) 34 % above cost price
(e) 38 % above cost price
25. A clock strike once at 1 o'clock , twice at 2 o'clock , thrice at 3 o'clock and so on. What is the total number of strikings in a day ?
- (a) 24
(b) 72
(c) 144
(d) 156
(e) 158
- Directions (26-30): What should come in place of the question mark (?) in the following number series?
26. 418, 208, 102, 48, ?, 5
- (a) 22
(b) 24

- (c) 20
- (d) 18
- (e) 30

27. **180, 191, 193, 203, 206, ?**

- (a) 215
- (b) 225
- (c) 205
- (d) 315
- (e) 305

28. **3, 4, 9, 28, ?, 566**

- (a) 111
- (b) 112
- (c) 113
- (d) 114
- (e) 115

29. **153, 155, 160, 170, 187, ?**

- (a) 211
- (b) 212
- (c) 213
- (d) 214
- (e) 215

30. **3, 1.5, 1.5, 3, 12, 96, ?**

- (a) 1530
- (b) 1430
- (c) 1636
- (d) 1436
- (e) 1536

Directions (31–34): What will come in place of the question-mark (?) in the following questions?

31. **$36251 + 43261 = ? + 52310$**

- (a) 27202
- (b) 28102
- (c) 29302

- (d) 26602
- (e) None of these

32. **of $534 + 262 = 61800 - ?$**

- (a) 56533
- (b) 57533
- (c) 58533
- (d) 37355
- (e) None of these

33. **72% of 486 – 64% of 261 = ?**

- (a) 184.66
- (b) 183.66
- (c) 188.88
- (d) 182.88
- (e) 186.24

34. **$? \div 62 \times 12 = 264$**

- (a) 1364
- (b) 1284
- (c) 1348
- (d) 1388
- (e) None of these

35. **Amit can do a piece of work in 24 days, Bhuvan can do the same work in 16 days, and Chirag can do the same job in th time required by both Amit and Bhuvan. Amit and Bhuvan work together for 6 days, then Chirag completes the job. How many days did Chirag work?**

- (a) 2
- (b) 4
- (c) 2
- (d) 2
- (e) None of these