

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

Quantitative Aptitude

Memory Based Quantitative Aptitude Paper for SBI PO Prelims 2017

1. **Instructions:** In the following number series only one number is wrong. Find out the wrong number. 7, 12, 40, 222, 1742, 17390, 208608

(a) 7
(b) 12
(c) 40
(d) 1742
(e) 208608

2. **Instructions:** In the following number series only one number is wrong. Find out the wrong number. 6, 91, 584, 2935, 11756, 35277, 70558

(a) 91
(b) 70558
(c) 584
(d) 2935
(e) 35277

3. **Instructions:** In the following number series only one number is wrong. Find out the wrong number. 9050, 5675, 3478, 2147, 1418, 1077, 950

(a) 3478
(b) 1418
(c) 5673
(d) 2147
(e) 1077

4. **Instructions:** In the following number series only one number is wrong. Find out the wrong number. 1, 4, 25, 256, 3125, 46656, 823543

(a) 3125
(b) 823543
(c) 46656
(d) 25
(e) 256

5. **Instructions:** In the following number series only one number is wrong. Find out the wrong number. 8424, 4212, 2106, 1051, 526.5, 263.25, 131.625

(a) 131.625
(b) 1051
(c) 4212
(d) 8424
(e) 263.25

Direction (6-10): In the following question, two equations I and II are given. Solve both the equations carefully & answer the questions given below:

6. I. $2x^2 - 7x + 6 = 0$

II. $y^2 - 3y + 2 = 0$

(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) $x = y$ or no relation can be established.

7. I. $3x^2 + 4x + 1 = 0$

II. $y^2 + 5y + 6 = 0$

(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) $x = y$ or no relation can be established.

8. I. $2x^2 + 5x + 2 = 0$

II. $y^2 + 9y + 20 = 0$

(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) $x = y$ or no relation can be established.

9. I. $x^2 - 7x + 10 = 0$
II. $y^2 + 9y + 20 = 0$
(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) $x = y$ or no relation can be established.
10. I. $(x - 12)^2 = 0$
II. $y^2 = 144$
(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) $x = y$ or no relation can be established.
11. Ratio between height of 2 cylinder is in the ratio 3:5. Their volumes are in the ratio 27:80. Find ratio between their radius.
(a) $1/2$
(b) $2/3$
(c) $3/4$
(d) $4/5$
(e) None of these
12. B is 20% efficient than A. B started the work & do it for x days. And then B is replaced by A. And A completed the remaining work in x+8 days. Ratio of work done by A & B is 3:2. In how many day A & B working together to complete the whole work?
(a) $120/12$
(b) $150/11$ days
(c) $140/13$ days
(d) $100/33$ days
(e) $75/12$ days
13. The time taken for covering 'X' Km by downstream is equal to 'X-18' by covering upstream. Upstream speed is 6 km/ hr less than that of downstream. If the speed of the boat in still water is 15 km/hr. What is the value of 'X'.
(a) 51
(b) 52
(c) 53
(d) 54
(e) 55
14. A sum of Rs. 91,000 is borrowed at 20% per annum compounded annually. If the amount is to be paid in two years, the amount will be?
(a) 1,20,000 Rs.
(b) 1,25,760 Rs.
(c) 1,27,526 Rs.
(d) 1,31,040 Rs.
(e) 1,34,034 Rs.
15. If an article is marked 40% above the cost price. If discount of x% is given on the marked price of the article then final profit of 12% is obtained. Now if CP of a new article is 120 Rs. and x% profit is desired then what should be the selling price of that new article?
(a) 140
(b) 142
(c) 144
(d) 146
(e) 148
16. Direction: What should come in place of question mark (?) in the following question? (You do not have to calculate the exact value.)
(a) 12
(b) 42
(c) 92
(d) 132
(e) 172
17. Direction: What approximate value will come in place of the question mark (?) in the following question?
(a) 24
(b) 39
(c) 36
(d) 28
(e) 32
18. What approximate value will come at the place of question mark (?) in the following question?
(a) 19
(b) 18
(c) 21
(d) 25
(e) 15

19. **Directions:** What approximate value will come in place of the question mark (?) in the following question? (You are not expected to calculate the exact value)

$$7441 \div 34 \times 12 = ? \times 9 + 110$$

- (a) 420
- (b) 280
- (c) 590
- (d) 350
- (e) 220

20. **Directions:** What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value.)

$$5466.97 - 3245.01 + 1122.99 = ? + 2309.99$$

- (a) 1130
- (b) 1000
- (c) 1100
- (d) 1030
- (e) 1060

21. Rs. 1800 is given at 20% per annum SI while Rs (1800 - P) is given at 30% per annum CI. If the difference between both interests at the end of two years is Rs 315. Find P.

- (a) Rs. 200
- (b) Rs. 300
- (c) Rs. 400
- (d) Rs. 100
- (e) None of these

22. Three partners A, B and C invested their amounts in ratio 7:5:3. At the end of six months, A withdraws his amount such that his total investment will be equal to C's initial investment. If C's share in annual Profit is Rs. 3600. A's annual profit will be?

- (a) Rs. 6000
- (b) Rs. 7000
- (c) Rs. 4500
- (d) Rs. 9000
- (e) None of these

23. A and B sold two articles at 25% profit and 40% profit respectively. If total profit is Rs. 178 and the cost price of A is Rs 120 less than B. find the CP of B.

- (a) Rs. 310
- (b) Rs. 370

- (c) Rs. 320
- (d) Rs. 430
- (e) None of these

24. A bag contains 25 cards with numbered 1, 2, 3,....., 25. Two cards are picked at random (one after another and without replacement). Find the probability that the sum of numbers of both cards are odd?

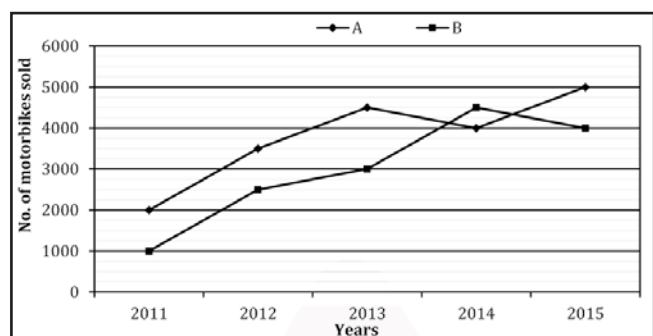
- (a) $\frac{12}{50}$
- (b) $\frac{13}{25}$
- (c) $\frac{13}{50}$
- (d) $\frac{13}{27}$
- (e) None of these

25. Sashi spends 32% of his income in various expenses. Of the remaining, she spends one – fourth on her brother while 9/17 on her sister and remaining keep as savings. If the difference between her money spending on brother and sister is Rs. 3800. What is Shashi's savings?

- (a) Rs. 3000
- (b) Rs. 2500
- (c) Rs. 4000
- (d) Rs. 3400
- (e) None of these

Directions (26-30): Read the following line graph and answer the following questions given below it –

There are two motorbike manufacturing companies A and B. The sale of motorbikes by these two different companies in different years is given in the graph below.



26. What is the ratio of total sales of company B in 2012 and that of company A in 2014 together to the total sales of company A in 2011 and that of company B in 2015 together?

- (a) 13:12
- (b) 11:9
- (c) 12:7
- (d) 13:10
- (e) None of these

27. What is the difference between the sales of company A in 2016 and that of company B in 2016 if the sales of company A and B increase by 20% and 10% respectively in 2016 as compared to 2015?

- (a) 1700
- (b) 1600
- (c) 1800
- (d) 2100
- (e) None of these

28. The total sales of both companies in 2015 is what percent more than the total sales of both the companies in 2011?

- (a) 280%
- (b) 180%
- (c) 200%
- (d) 250%
- (e) None of these

29. Find the difference between the total sales of company A from 2012 to 2014 and that of company B from 2013 to 2015?

- (a) 750
- (b) 500
- (c) 600
- (d) 400
- (e) None of these

30. If the sales of company A increases by 33.33% in 2011 over its sales in 2010, then find the percent increase in the sales of company A in 2015 with respect to the sales in 2010?(up to two decimal places)

- (a) 233.33%
- (b) 210.12%
- (c) 333.33%
- (d) 272.32%
- (e) None of these

Directions (31-35): Read the following table and answer the following question :

Total number of voters in different districts and Percentage of male out of these voters are given.

District	Total voters (Male and Female)	Percentage of male out of total voters
A	350	30%
B	400	54%
C	370	50%
D	250	46%
E	300	45%
F	625	32%

31. Total number of male voters from district A and B together are how much more/less than total number of female voters from district E and D together?

- (a) 21
- (b) 32
- (c) 25
- (d) 31
- (e) None of these

32. The average of total voters from district B, C and D together are approximately what percent less/more than the no. of male of voters from districts D,E and F together?

- (a) 33.33%
- (b) 24.44%
- (c) 66.66%
- (d) 16.66%
- (e) none of these

33. Find the ratio of the male voters from district D and E together to the female voters form district C, E and F together?

- (a) 10 : 31
- (b) 10 : 41
- (c) 10 : 51
- (d) 10 : 61
- (e) None of these

34. The no. of female voters from district F is what percent more/less than the no. of male voters from district A? (rounded off to nearest integer)

- (a) 290%
- (b) 230%
- (c) 300%
- (d) 305%
- (e) None of these

35. Find the ratio of no. of male voters from districts B and E together to the no. of female voters from districts C and A together?

- (a) 351:430
- (b) 341:230
- (c) 361:430
- (d) 231:410
- (e) None of these

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