

**Memory Based
Paper of
IBPS PO
Prelims 2018**

Quantitative Aptitude

Memory Based Quantitative Aptitude Paper of IBPS PO Prelims 2018

Directions (1-6): The given table shows the shirts produced in 4 years by a company. Read the given table carefully and answer the given questions.

| Year | No. of Shirts produced (in lakh) | % of shirts failed the quality test |
|------|----------------------------------|-------------------------------------|
| 2014 | 3.2 | 2.5% |
| 2015 | 4.0 | 2.25% |
| 2016 | 2.8 | 1.25% |
| 2017 | 3.6 | 1.25% |

Shirts which failed the quality test were not sold.

- 1. In 2016, if 2300 formal shirts produced failed the quality test and 99% of informal shirts passed the quality test, what was the respective ratio between number of formal shirts to informal shirts in 2016?**
 - (a) 4 : 3
 - (b) 3 : 4
 - (c) 8 : 7
 - (d) 7 : 8
 - (e) None of the above
- 2. Average number of shirts that passed the quality test in 2016 and in 2017 is:**
 - (a) 324000
 - (b) 321000
 - (c) 306000
 - (d) 316000
 - (e) 308000
- 3. Number of shirts that failed quality test reduced by what percent in 2017 compared to 2014?**
 - (a) 6623%
 - (b) 6212%
 - (c) 5614%
 - (d) 4334%
 - (e) 3712%
- 4. In 2015, 40% shirts were white and remaining were coloured. How many were coloured shirts?**
 - (a) 240000
 - (b) 246000
 - (c) 180000
 - (d) 228000
 - (e) None of the above
- 5. In 2015, 10% passed quality test remained unsold. How many remain unsold?**
 - (a) 48100
 - (b) 39100
 - (c) 44500
 - (d) 47100
 - (e) 50200
- 6. In 2014, all shirts which passed the quality test were sold at an average price of Rs. 500 per shirt. What was the revenue of the time that year? (in cror**
 - (a) 1.56
 - (b) 15.6
 - (c) 5.6
 - (d) 12.8
 - (e) None of the above
- 7. In the following series one number is wrong, Find out the wrong number. 201, 200, 194, 184, 167, 141, 104**
 - (a) 201
 - (b) 200
 - (c) 184
 - (d) 167
 - (e) 104

8. In the following series one number is wrong, Find out the wrong number. 53.9, 52.7, 50.3, 46.7, 40.9, 35.9, 28.7

- (a) 52.7
- (b) 40.9
- (c) 35.9
- (d) 28.7
- (e) 53.9

9. In the following series one number is wrong, Find out the wrong number. 9, 12, 71, 158, 259, 368, 478.5

- (a) 478.5
- (b) 71
- (c) 158
- (d) 259
- (e) 368

10. In the following series one number is wrong, Find out the wrong number. 5, 4, 7, 20, 79, 395, 2363

- (a) 4
- (b) 7
- (c) 79
- (d) 395
- (e) 2363

11. In the following series one number is wrong, Find out the wrong number. 16, 4, 8, 12, 24, 60, 180

- (a) 16
- (b) 4
- (c) 12
- (d) 60
- (e) 180

Directions (12-17): In the following question, two equations are given. You have to solve both the equations and find the relation between 'x' and 'y' and mark the correct answer.

12.

- (A) $x^2 - 16x + 63 = 0$
- (B) $y^2 - 19y + 88 = 0$
- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

13.

- (A) $x^2 - 36x + 324 = 0$
- (B) $y^2 - 42y + 441 = 0$
- (c) if $x > y$
- (d) if $x \geq y$
- (e) if $x < y$
- (f) if $x \leq y$
- (g) if $x = y$ or the relationship cannot be established.

14.

- (A) $x^2 - 10x + 25 = 0$
- (B) $y^2 = 25$
- (c) if $x > y$
- (d) if $x \geq y$
- (e) if $x < y$
- (f) if $x \leq y$
- (g) if $x = y$ or the relationship cannot be established.

15.

- (A) $x^2 + 12x + 35 = 0$
- (B) $y^2 + 17y + 72 = 0$
- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

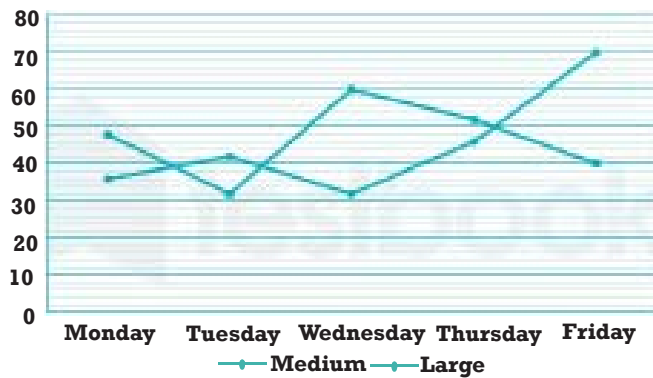
16.

- (A) $3x^2 - 7x + 4 = 0$
- (B) $2y^2 - 3y + 1 = 0$
- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

17.

- (A) $2x^2 + 5x + 3 = 0$
- (B) $2y^2 - 7y + 6 = 0$
- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or the relationship cannot be established.

Directions (18-22): Sale of vox boxes on different days by ABC Company.



18. Boxes sold on Tuesday of both sizes are what percent of large size boxes sold on Friday?

- (a) 104.75%
- (b) 105.71%
- (c) 105.75%
- (d) 104.71%
- (e) 105%

19. What is the difference between medium size vox box sold on Monday and large size vox box sold on Thursday?

- (a) 2
- (b) 1
- (c) 0
- (d) 3
- (e) 4

20. Find the ratio between large size vox box sold on Wednesday and medium size vox box sold on Tuesday.

- (a) 1 : 2
- (b) 2 : 1
- (c) 1 : 3
- (d) 2 : 3
- (e) 1 : 1

21. What is the average of medium size vox box sold on Monday, Thursday and Friday?

- (a) 45.67
- (b) 47.67
- (c) 44.67
- (d) 46.67
- (e) 48.67

22. Total boxes sold on Monday are what percent of total boxes sold on Thursday?

- (a) 75.7%
- (b) 77.7%
- (c) 87.5%
- (d) 95.7%
- (e) 85.7%

23. How many large size vox boxes were sold on all the days?

- (a) 226
- (b) 216
- (c) 206
- (d) 196
- (e) 236

24. Ram drives from A to B by car at 90 km/h. He goes to C from B by bike at 60 km/h. The distance between A and C is 200 km, while the average speed between A and C is 75 km/h. What is the distance traveled by car?

- (a) 90 km
- (b) 80 km
- (c) 75 km
- (d) 120 km
- (e) 60 km

25. 200 and 180 students of school A & B passed the exam. 20% and 10% students from A and B did not pass the exam. How many students appeared in the exam from both the schools?

- (a) 420
- (b) 360
- (c) 450
- (d) 400
- (e) 480

26. Ram sold 2 items A and B at the same price. Profit on one and incurring loss on the other. Ratio between the total S.P. of both items together and total cost price of both items together is 30 : 37. If he earns 25% on selling A, what was the loss incurred in selling on B in Rs. 600?

- (a) Rs. 450
- (b) Rs. 400
- (c) Rs. 300
- (d) Rs. 360
- (e) Rs. 200

27. The volume of a cylinder is 500π and the radius is 5 cm. The height of the cylinder is equal to the diagonal of a square. Find the perimeter of the square.

- (a) $40\sqrt{2}$ cm
- (b) 40 cm
- (c) $10\sqrt{2}$ cm
- (d) $80\sqrt{2}$ cm
- (e) 10 cm

Directions (50-54): A salon distributed 450 vouchers of free haircut and pedicure. The number of haircut vouchers were 130 more than the number of pedicure voucher. The ratio between the male and female getting the pedicure voucher is 13 : 7. A number of vouchers redeemed by males for haircut were 15 more than that of vouchers redeemed by males for a pedicure. (Not necessary that all vouchers were redeemed.)

28. What is the difference between the male and female getting the pedicure voucher?

- (a) 48
- (b) 42
- (c) 54
- (d) 36
- (e) 60

29. How many people redeemed the haircut voucher?

- (a) 300
- (b) 160
- (c) 290
- (d) 280
- (e) 310

30. How many males redeemed the pedicure voucher?

- (a) 91
- (b) 104
- (c) 117
- (d) 130
- (e) 78

31. If 30 people having pedicure voucher took manicure services and 50% people having haircut voucher took manicure voucher services then how many people took manicure services?

- (a) 145
- (b) 155

(c) 165

(d) 135

(e) 175

32. Number of females redeeming pedicure voucher are what percent (approximate) of number of people redeeming haircut voucher?

- (a) 21%
- (b) 19%
- (c) 18%
- (d) 16%
- (e) 22%

33. A alone can do a work in 20 days. B is 25% more efficient than A and B started working and worked for 4 days. If C alone completed the remaining job in 22 days. How many days C alone takes to complete the entire job?

- (a) 24 days
- (b) 36 days
- (c) 12 days
- (d) 20 days
- (e) 40 days

34. A bag contains X red balls and 5 green balls. 2 balls are picked up from the bag at random, one after the other, without replacement, the probability of both balls being red is $\frac{3}{7}$. What will be the value of X?

- (a) 10
- (b) 15
- (c) 13
- (d) 20
- (e) None of the above

35. Rs. 7000 divided unequally and invested in scheme A (offered C.I. at 10% p.a. compounded annually) and in scheme B (offered S.I. at 15% p.a.) for 2 years and 3 years. If the investment earned from scheme A is 84% that earned from scheme B. Find the sum invested in scheme A.

- (a) Rs. 4500
- (b) Rs. 2500
- (c) Rs. 3000
- (d) Rs. 4000
- (e) Rs. 3600