

## Bank Exam Prelims Questions – Quantitative Aptitude

- 1) Amit does 40% of a work in 10 days. Then Bhargav joined Amit and they together finish the remaining part of work in 3 days. How long Bhargav alone would take to do the whole work?**
- a) 2 days
  - b) 3 days
  - c)  $4\frac{1}{4}$  days
  - d)  $6\frac{1}{4}$  days
  - e) None of these
- 2) P, Q and R enters into a partnership business of total investment Rs.40000. P invests Rs.5000 more than Q and Q invests Rs.10000 more than R. Out of a total profit of Rs.20000. How much does P receive?**
- a) Rs.5000
  - b) Rs.10000
  - c) Rs.15000
  - d) Rs.20000
  - e) None of these
- 3) Out of total monthly salary of Mahesh, he spends 25% of his monthly salary on Rent and 20 % on travelling expenses. 40 % of the remaining monthly salary for food and while the remaining salary is saved which is equal to Rs. 16500, then find his monthly salary?**
- a) Rs. 45000
  - b) Rs. 50000
  - c) Rs. 60000
  - d) Rs. 40000
  - e) None of these
- 4) The length of a rectangle is 12 m more than the side of the square and the breadth of the rectangle is 5 m less than the side of the square. If the area of the square is 784 Sq m. what is the area of the rectangle?**
- a) 840 Sq m
  - b) 780 Sq m
  - c) 920 Sq m
  - d) 660 Sq m
  - e) None of these

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**5) 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

**6) 5 years ago, the ratio of age of A and B is 3 : 2. C is 7 years younger than A. The present age of C is 2 times of D's present age. Find the present age of B, if the age of D, after 6 years is 35 years?**

- a) 40 years
- b) 42 years
- c) 45 years
- d) 38 years
- e) None of these

**7) A sold an article for Rs. 954 and earned a profit of 6 %. At what price should it have been sold so as to earn a profit of 14 %?**

- a) Rs. 1134
- b) Rs. 1026
- c) Rs. 1278
- d) Rs. 1082
- e) None of these

**Directions (Q. 8 - 20): What value should come in the place of question mark (?) in the following questions?**

**8)  $(18 * 24 - 13^2) + 40\%$  of  $(18 * 25) = ?$**

- a) 392
- b) 413
- c) 420
- d) 440
- e) 443

**9)  $45\%$  of  $360 + (25^2 + 16^2) = ? + 170$**

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- a) 873
- b) 759
- c) 750
- d) 854
- e) 825

**10)  $?^2 - 405 = (\sqrt{1089} * 5)\%$  of 2000 – 1205**

- a) 60
- b) 55
- c) 50
- d) 65
- e) 70

**11)  $? = (154 * 192)/(22*24) + 13 * 11$**

- a) 201
- b) 214
- c) 219
- d) 203
- e) 199

**12)  $? = (14 * (13^2 + 131))/40 + 60\%$  of 400**

- a) 325
- b) 345
- c) 260
- d) 275
- e) None of these

**13)  $\sqrt{961} * 5 + ? = 129 + 83 * \sqrt{9} - 203$**

- a) 80
- b) 50
- c) 20
- d) 40
- e) 90

**14)  $10\%$  of ? +  $110\%$  of 60 =  $\sqrt{7744} * 5 - 12 * 4$**

- a) 3150
- b) 3160
- c) 3260

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d) 1260

e) 2280

**15) 50% of 144 +  $\sqrt{4624} \div 2 + ? = 135\%$  of 180**

a) 60

b) 63

c) 52

d) 58

e) 71

**16) 179 + 321 - 567 + 117 = ? +  $\sqrt{64} * 4$**

a) 15

b) 9

c) 18

d) 11

e) 12

**17) 78% of 150 + 182  $\div$  13 + ? = 19 \*  $\sqrt{81}$**

a) 30

b) 40

c) 50

d) 60

e) 70

**18) 40% of 400 + 65% of 620 - 91 \* 4 = ?**

a) 196

b) 197

c) 198

d) 199

e) 200

**19)  $\sqrt{729} * 4 + (39 + 166 - 57) \div 37 = ?$**

a) 111

b) 110

c) 113

d) 112

e) 114

**20) 1280  $\div$  8 + 490  $\div$   $\sqrt{49} + ? = 150 * 2$**

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- a) 60
- b) 70
- c) 50
- d) 80
- e) 40

**Directions (Q. 21 - 25):** What value should come in the place of (?) in the following number series?

**21) 6, 3, 3, 4.5, 9, ?**

- a) 23.25
- b) 18
- c) 24.75
- d) 22.5
- e) 25

**22) 6, 8, 14, 26, ?**

- a) 46
- b) 52
- c) 48
- d) 44
- e) 56

**23) 72000, 36000, 12000, ? , 600**

- a) 4800
- b) 4000
- c) 3000
- d) 4200
- e) 3600

**24) 50, 56, 68, 86, 110, ?**

- a) 142
- b) 140
- c) 150
- d) 152
- e) 128

**25) 3, 6, 15, 42, 123, ?**

- a) 320

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- b) 340
- c) 366
- d) 340
- e) 328

**Directions (Q. 26 - 30):** In each of the following questions, two equations are given. You have to solve both the equations to find the relation between x and y.

**26)**

**I)**  $2x^2 - 55x + 378 = 0$

**II)**  $2y^2 + 37y + 171 = 0$

- a) If  $x < y$
- b) If  $x > y$
- c) If  $x \leq y$
- d) If  $x \geq y$
- e) If relationship between x and y cannot be determined

**27)**

**I)**  $x^2 + 11x + 28 = 0$

**II)**  $9y^2 + 32y + 15 = 0$

- a) If  $x < y$
- b) If  $x > y$
- c) If  $x \leq y$
- d) If  $x \geq y$
- e) If relationship between x and y cannot be determined

**28)**

**I)**  $x^2 - 6x - 7 = 0$

**II)**  $y^2 - 19y + 84 = 0$

- a) If  $x < y$
- b) If  $x > y$
- c) If  $x \leq y$
- d) If  $x \geq y$
- e) If relationship between x and y cannot be determined

**29)**

**I)**  $x^2 + 9x - 52 = 0$

**II)**  $y^2 + 4y - 32 = 0$

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- a) If  $x < y$
- b) If  $x > y$
- c) If  $x \leq y$
- d) If  $x \geq y$
- e) If relationship between  $x$  and  $y$  cannot be determined

**30)**

**I)**  $x^2 - 841 = 0$

**II)**  $y^3 - 29791 = 0$

- a) If  $x < y$
- b) If  $x > y$
- c) If  $x \leq y$
- d) If  $x \geq y$
- e) If relationship between  $x$  and  $y$  cannot be determined

**Directions (Q. 31 - 35):** Study the following information carefully and answer the questions given below?

The following table shows the total number of passengers (Male + Female) travelled in 5 different trains.

Trains	Male passengers	Female passengers
A	450	400
B	350	300
C	420	500
D	480	260
E	520	340

**31) Find the difference between the total number of male passengers in train C and E together to that of total number of female passengers in train A and D together?**

- a) 280
- b) 320
- c) 260
- d) 340
- e) None of these

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**32) Find the ratio between the total number of passengers in train D to that of train E?**

- a) 5 : 9
- b) 41 : 52
- c) 37 : 43
- d) 18 : 25
- e) None of these

**33) Total number of passengers in train A is approximately what percentage more than the total number of passengers in train B?**

- a) 20 %
- b) 31 %
- c) 56 %
- d) 63 %
- e) 44 %

**34) Find the average number of female passengers in all the given trains together?**

- a) 375
- b) 345
- c) 350
- d) 360
- e) None of these

**35) Total number of male passengers in train B and D together is approximately what percentage of total number of female passengers in train A and C together?**

- a) 92 %
- b) 78 %
- c) 66 %
- d) 104 %
- e) 115 %

### Answers:

#### 1) Answer: D

Time taken by Amit to complete the total work =  $10/40 * 100 = 25$  days

Time taken by Amit and Bhargav to complete the total work =  $3/60 * 100 = 5$  days

Let the time taken by Bhargav to complete the work be  $x$ , then

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$$1/25 + 1/x = 1/5$$

$$1/x = 4/25$$

$$x = 6 \frac{1}{4} \text{ days}$$

### 2) Answer: B

Let the amount invested by R be Rs.x.

$$Q = x + 10000$$

$$P = x + 10000 + 5000 = x + 15000$$

$$\text{So, } x + x + 10000 + x + 15000 = 40000$$

$$\Rightarrow x = \text{Rs.}5000$$

$$P: Q: R = 20000: 15000: 5000 = 4: 3: 1$$

$$\text{Amount received by P} = 20000 * (4/8) = \text{Rs.}10000$$

### 3) Answer: B

Let the monthly salary of Mahesh be x,

$$X * (55/100) * (60/100) = 16500$$

$$X = 16500 * (100/55) * (100/60)$$

$$X = \text{Rs. } 50000$$

$$\text{Monthly salary of Mahesh} = \text{Rs. } 50000$$

### 4) Answer: C

$$\text{Area of square} = 784 \text{ Sq m}$$

$$\text{Side of the square} = 28 \text{ m}$$

$$\text{Length of the rectangle} = 28 + 12 = 40 \text{ m}$$

$$\text{Breadth of the rectangle} = 28 - 5 = 23 \text{ m}$$

$$\text{Area of the rectangle} = 40 * 23 = 920 \text{ Sq m}$$

### 5) Answer: C

$$\text{Speed of downstream} = D/T = 55 / (66/60) = 55 * (60/66) = 50 \text{ km/hr}$$

The ratio of the speed of the boat in still water to the speed of the stream

$$= > 4 : 1 (4x, x)$$

$$5x = 50$$

$$x = 10$$

$$\text{Speed of upstream} = 4x - x = 3x = 30 \text{ km/hr}$$

$$\text{Distance} = 72 \text{ km}$$

$$\text{Time} = D/S = 72/30 = 2 \frac{2}{5} \text{ hr} = 2 \text{ hour } 24 \text{ min}$$

### 6) Answer: C

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5 years ago, the ratio of age of A and B = 3 : 2 (3x, 2x)

The present age of A and B = 3x + 5, 2x + 5

Present age of C = Present age of A - 7

Present age of D = 35 - 6 = 29

Present age of C = 2 \* present age of D

= > 2\*29 = 58 years

Present age of A = 58 + 7 = 65 years

3x + 5 = 65

3x = 60

x = 20

The present age of B = 2x + 5 = 45 years

**7) Answer: B**

**Shortcut:**

$(100 + \text{Profit \%}) / \text{SP1} = (100 + \text{Profit \%}) / \text{SP2}$

$(100 + 6) / 954 = (100 + 14) / \text{SP2}$

$(106 / 954) = (114 / \text{SP2})$

$\text{SP2} = 114 * (954 / 106) = \text{Rs. } 1026$

**8) Answer: E**

$X = (18 * 24 - 13^2) + 40 / 100 * (18 * 25)$

=  $(432 - 169) + 2 / 5 * (450)$

= 263 + 180

= 443

**9) Answer: A**

$X = (45 / 100) * 360 + (25^2 + 16^2) - 170$

= 162 + 625 + 256 - 170

= 873

**10) Answer: C**

$X^2 = (\sqrt{1089} * 5) \% \text{ of } 2000 - 1205 + 405$

$X^2 = [(33 * 5) / 100] * 2000 - 1205 + 405$

$X^2 = 3300 - 1205 + 405$

$X^2 = 2500$

X = 50

**11) Answer: E**

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$$\begin{aligned}
 X &= (154 * 192)/(22*24) + 13 * 11 \\
 &= 7 * 8 + 13 * 11 \\
 &= 56 + 143 \\
 &= 199
 \end{aligned}$$

**12) Answer: B**

$$\begin{aligned}
 X &= (14 * (13^2 + 131))/40 + 60\% \text{ of } 400 \\
 X &= (14 * 300)/40 + 60/100 * 400 \\
 &= 105 + 240 \\
 &= 345
 \end{aligned}$$

**13) Answer: C**

$$\begin{aligned}
 \sqrt{961} * 5 + ? &= 129 + 83 * \sqrt{9} - 203 \\
 31 * 5 + ? &= 129 + 83 * 3 - 203 \\
 155 + ? &= 129 + 249 - 203 \\
 ? &= 20
 \end{aligned}$$

**14) Answer: C**

$$\begin{aligned}
 10\% \text{ of } ? + 110\% \text{ of } 60 &= \sqrt{7744} * 5 - 12 * 4 \\
 10\% \text{ of } ? + 66 &= 440 - 48 \\
 ? &= 3260
 \end{aligned}$$

**15) Answer: D**

$$\begin{aligned}
 50\% \text{ of } 144 + \sqrt{4624} \div 2 + ? &= 135\% \text{ of } 180 \\
 72 + 34 + ? &= 243 \\
 ? &= 137
 \end{aligned}$$

**16) Answer: C**

$$\begin{aligned}
 179 + 321 - 567 + 117 &= ? + \sqrt{64} * 4 \\
 ? &= 18
 \end{aligned}$$

**17) Answer: B**

$$\begin{aligned}
 78\% \text{ of } 150 + 182 \div 13 + ? &= 19 * \sqrt{81} \\
 117 + 14 + ? &= 19 * 9 \\
 40 &= ?
 \end{aligned}$$

**18) Answer: D**

$$\begin{aligned}
 40\% \text{ of } 400 + 65\% \text{ of } 620 - 91 * 4 &= ? \\
 160 + 403 - 364 &= ? \\
 199 &= ?
 \end{aligned}$$

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**19) Answer: D**

$$\sqrt{729} * 4 + (39 + 166 - 57) \div 37 = ?$$

$$108 + 4 = ?$$

$$112 = ?$$

**20) Answer: B**

$$1280 \div 8 + 490 \div \sqrt{49} + ? = 150 * 2$$

$$160 + 70 + ? = 300$$

$$? = 70$$

**21) Answer: D**

The pattern is, \*0.5, \*1, \*1.5, \*2, \*2.5,...

The answer is, 22.5

**22) Answer: A**

6,	8,	14,	26,	46
2	6	12	20	

The difference is, (1\*2), (2\*3), (3\*4), (4\*5)

**23) Answer: C**

The pattern is,  $\div 2$ ,  $\div 3$ ,  $\div 4$ ,  $\div 5$ ,...

The answer is, 3000

**24) Answer: B**

$$50 + 6 = 56$$

$$56 + 12 = 68$$

$$68 + 18 = 86$$

$$86 + 24 = 110$$

$$110 + 30 = \mathbf{140}$$

**25) Answer: C**

$$3 + 3^1 = 6$$

$$6 + 3^2 = 15$$

$$15 + 3^3 = 42$$

$$42 + 3^4 = 123$$

$$123 + 3^5 = \mathbf{366}$$

**26) Answer: B**

**From I**

$$2x^2 - 55x + 378 = 0$$

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$$\Rightarrow 2x^2 - 27x - 28x + 378 = 0$$

$$\Rightarrow (x - 14)(2x - 27) = 0$$

$$\Rightarrow x = 14, 27/2$$

**From II**

$$2y^2 + 37y + 171 = 0$$

$$\Rightarrow 2y^2 + 18y + 19y + 171 = 0$$

$$\Rightarrow (2y + 19)(y + 9) = 0$$

$$\Rightarrow y = -9, -19/2$$

**Hence,  $x > y$**

**27) Answer: A**

**From I**

$$x^2 + 11x + 28 = 0$$

$$\Rightarrow x^2 + 7x + 4x + 28 = 0$$

$$\Rightarrow (x + 4)(x + 7) = 0$$

$$\Rightarrow x = -4, -7$$

**From II**

$$9y^2 + 32y + 15 = 0$$

$$\Rightarrow 9y^2 + 27y + 5y + 15 = 0$$

$$\Rightarrow (9y + 5)(y + 3) = 0$$

$$\Rightarrow y = -3, -5/9$$

**Hence,  $x < y$**

**28) Answer: C**

**From I**

$$x^2 - 6x - 7 = 0$$

$$\Rightarrow x^2 - 7x + x - 7 = 0$$

$$\Rightarrow (x - 7)(x + 1) = 0$$

$$\Rightarrow x = -1, 7$$

**From II**

$$y^2 - 19y + 84 = 0$$

$$\Rightarrow y^2 - 12y - 7y + 84 = 0$$

$$\Rightarrow (y - 12)(y - 7) = 0$$

$$\Rightarrow y = 12, 7$$

**Hence,  $x \leq y$**

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**29) Answer: E**

**From I**

$$x^2 + 9x - 52 = 0$$

$$\Rightarrow x^2 + 13x - 4x - 52 = 0$$

$$\Rightarrow (x - 4)(x + 13) = 0$$

$$\Rightarrow x = 4, -13$$

**From II**

$$y^2 + 4y - 32 = 0$$

$$\Rightarrow (y + 8)(y - 4) = 0$$

$$\Rightarrow y = 4, -8$$

**Hence relationship between x and y cannot be determined**

**30) Answer: A**

**From I**

$$x^2 - 841 = 0$$

$$\Rightarrow x^2 = 841$$

$$\Rightarrow x = \pm 29$$

**From II**

$$y^3 - 29791 = 0$$

$$\Rightarrow y^3 = 29791$$

$$\Rightarrow y = 31$$

**Hence,  $x < y$**

**31) Answer: A**

The total number of male passengers in train C and E together

$$= > 420 + 520 = 940$$

The total number of female passengers in train A and D together

$$= > 400 + 260 = 660$$

$$\text{Required difference} = 940 - 660 = 280$$

**32) Answer: C**

The total number of passengers in train D

$$= > 480 + 260 = 740$$

The total number of passengers in train E

$$= > 520 + 340 = 860$$

$$\text{Required ratio} = 740 : 860 = 37 : 43$$

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### **33) Answer: B**

Total number of passengers in train A

$$= > 450 + 400 = 850$$

Total number of passengers in train B

$$= > 350 + 300 = 650$$

$$\text{Required \%} = [(850 - 650) / 650] * 100 = 30.76 \% = 31 \%$$

### **34) Answer: D**

The average number of female passengers in all the given trains together

$$= > (400 + 300 + 500 + 260 + 340) / 5$$

$$= > 1800 / 5 = 360$$

### **35) Answer: A**

Total number of male passengers in train B and D together

$$= > 350 + 480 = 830$$

Total number of female passengers in train A and C together

$$= > 400 + 500 = 900$$

$$\text{Required \%} = (830/900) * 100 = 92.22 \% = 92 \%$$