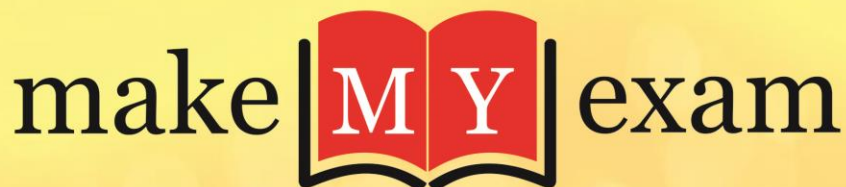


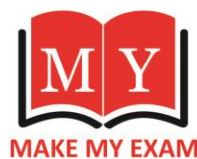
# QUANTITATIVE APTITUDE SOLUTION (MEMORY BASED PAPERS)

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Q.No. ①

$$\begin{aligned}
 &3, 5, 13, 43, 177 \\
 \Rightarrow &3 \times 1 + 2 = 5 \\
 &5 \times 2 + 3 = 13 \\
 &13 \times 3 + 4 = 43 \\
 &43 \times 4 + 5 = 177 \\
 &177 \times 5 + 6 = 891
 \end{aligned}$$

Q.No. ②

$$\begin{aligned}
 &68, 117, 61, 124, 54, 131 \\
 &\quad \quad \quad \begin{array}{cc} -7 & -7 \\ \text{---} & \text{---} \\ & +7 \quad +7 \end{array} \\
 &\text{Ans} \Rightarrow 131
 \end{aligned}$$

Q.No. ③

$$\begin{aligned}
 &7, 7, 13, 37, 97, ? \\
 \Rightarrow &7 \times 1 - 0 = 7 \\
 \Rightarrow &7 \times 2 - 1 = 13 \\
 \Rightarrow &13 \times 3 - 2 = 37 \\
 \Rightarrow &37 \times 4 - 3 = 145 \\
 &\text{Ans} \Rightarrow 145
 \end{aligned}$$

Q.No. ④

$$\begin{aligned}
 &3.25, 6.5, 19.5, 78, 390, ? \\
 \Rightarrow &3.25 \times 2 = 6.5 \\
 \Rightarrow &6.5 \times 3 = 19.5 \\
 \Rightarrow &19.5 \times 4 = 78 \\
 \Rightarrow &78 \times 5 = 390 \\
 \Rightarrow &390 \times 6 = 2340 \\
 &\text{Ans} \Rightarrow 2340
 \end{aligned}$$

Q.No. ⑤

$$\begin{aligned}
 &.9, 3.5, 2.5, 4, 15, ? \\
 \Rightarrow &.9 \times .5 - .5 = 3.5 \\
 \Rightarrow &3.5 \times 1 - 1 = 2.5 \\
 \Rightarrow &2.5 \times 2 - 1 = 4 \\
 \Rightarrow &4 \times 4 - 1 = 15 \\
 \Rightarrow &15 \times 8 - 1 = 119 \\
 &\text{Ans} \Rightarrow 119
 \end{aligned}$$

Q.No. ⑥

$$\begin{aligned}
 &3, 4, 9, 28, 113, ? \\
 \Rightarrow &3 \times 1 + 1 = 4 \\
 \Rightarrow &4 \times 2 + 1 = 9 \\
 \Rightarrow &9 \times 3 + 1 = 28 \\
 \Rightarrow &28 \times 4 + 1 = 113 \\
 \Rightarrow &113 \times 5 + 1 = 566 \\
 &\text{Ans} \Rightarrow 566
 \end{aligned}$$



Q.No. ⑦

$$\begin{aligned}
 &11, 5, 4, 4.5, 7, ? \\
 \Rightarrow &11 \times 0.5 - 0.5 = 5 \\
 \Rightarrow &5 \times 1 - 1 = 4 \\
 \Rightarrow &4 \times 1.5 - 1.5 = 4.5 \\
 \Rightarrow &4.5 \times 2 - 2 = 7 \\
 \Rightarrow &7 \times 2.5 - 2.5 = 15 \\
 &\text{Ans} \Rightarrow 15
 \end{aligned}$$

Q.No. ⑧

$$\begin{aligned}
 &104, 102, 96, 84, ?, 34 \\
 \Rightarrow &-02, -6, -12, -20, -30 \\
 &4 \quad 6 \quad 8 \quad 10 \\
 &\text{Missing No. should be} \\
 \Rightarrow &84 - 20 \\
 \Rightarrow &64
 \end{aligned}$$

Q.No. ⑨

$$\begin{aligned}
 &3072, 192, 24, 6, ?, 3 \\
 \Rightarrow &3072 \div 16 = 192 \\
 \Rightarrow &192 \div 8 = 24 \\
 \Rightarrow &24 \div 4 = 6 \\
 \Rightarrow &6 \div 2 = 3 \\
 \Rightarrow &3 \div 1 = 3
 \end{aligned}$$

Q.No. ⑩

$$\begin{aligned}
 &6, 280, 410, 468, 490, ? \\
 &274, 130, 58, 22, 4 \\
 &144, 72, 36, 18 \\
 &\text{Missing No.} \Rightarrow 490 + 4 = 494
 \end{aligned}$$

Q.No. ⑪

$$\begin{aligned}
 &9, 5, 6, 10.5, 23, ? \\
 \Rightarrow &9 \times 0.5 + 0.5 = 5 \\
 \Rightarrow &5 \times 1 + 1 = 6 \\
 \Rightarrow &6 \times 1.5 + 1.5 = 10.5 \\
 \Rightarrow &10.5 \times 2 + 2 = 23 \\
 \Rightarrow &23 \times 2.5 + 2.5 = 60
 \end{aligned}$$

Q.No. ⑫

$$\begin{aligned}
 &18, 20, 26, 38, ?, 88 \\
 \Rightarrow &2, 6, 12, 20, 30 \\
 &4 \quad 6 \quad 8 \quad 10 \\
 &\text{Missing No.} \Rightarrow 38 + 20 = 58
 \end{aligned}$$

Q.No. (13)

1, 20, 58, 134, 286, ?  
 $\swarrow \quad \swarrow \quad \swarrow \quad \swarrow \quad \swarrow$   
 19 38 76 152 304

Diff  $\Rightarrow 19 \times 2 = 38$

$38 \times 2 = 76$

$76 \times 2 = 152$

$152 \times 2 = 304$

Missing No.  $\Rightarrow 286 + 304$   
 $\Rightarrow 590$

Q.No. (14)

8, 7, 13, 38, 151, ?

$\Rightarrow 8 \times 1 - 1 = 7$

$\Rightarrow 7 \times 2 - 1 = 13$

$\Rightarrow 13 \times 3 - 1 = 39$

$\Rightarrow 39 \times 4 - 1 = 151$

$\Rightarrow 151 \times 5 - 1 = 754$

Q.No. (15)

32, ?, 1024, 2048, 2048

$\Rightarrow 32 \times 8 = 256$

$\Rightarrow 256 \times 4 = 1024$

$\Rightarrow 1024 \times 2 = 2048$

$\Rightarrow 2048 \times 1 = 2048$

Q.No. (16)

17, 98, 06, 89, 35, ?  
 $\begin{matrix} +9 & +9 \\ \text{---} & \text{---} \\ -9 & -9 \end{matrix}$

Missing No  $\rightarrow 89 - 9$   
 $\Rightarrow 80$

Q.No. (17)

2, 17, 89, 359, 1079, ?

$\Rightarrow 2 \times 6 + 5 = 17$

$17 \times 5 + 4 = 89$

$89 \times 4 + 3 = 359$

$359 \times 3 + 2 = 1079$

$1079 \times 2 + 1 = 2159$

Q.No. (18)

7, 4.5, 5.5, 12, 49, ?

$\Rightarrow 7 \times .5 + 1 = 4.5$

$4.5 \times 1 + 1 = 5.5$

$5.5 \times 2 + 1 = 12$

$12 \times 4 + 1 = 49$

$49 \times 8 + 1 = 393$



Q.No. (18)

$$\begin{array}{ccccccc} 3, & 5, & 15, & 45, & 113, & ? \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \Rightarrow & 2 & 10 & 30 & 68 & 130 \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & 8 & 20 & 38 & 62 \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ & 12 & 18 & 24 \end{array}$$

Next No. should be  
 $\Rightarrow 113 + 130$   
 $\Rightarrow 243$

Q.No. (20)

$$\begin{array}{l} 3240, 540, 108, 27, ?, 4.5 \\ \Rightarrow 3240 \div 6 = 540 \\ \Rightarrow 540 \div 5 = 108 \\ \Rightarrow 108 \div 4 = 27 \\ \Rightarrow 27 \div 3 = 9 \\ \Rightarrow 9 \div 2 = 4.5 \\ \text{Missing No} \rightarrow 9 \end{array}$$

Q.No. (21)

Q.No. (22)

A can do a work in 24 days  
 $\frac{1}{3}$  work in =  $\frac{24}{3} \Rightarrow 8$  days  
 B's  $\frac{1}{2}$  work in 8 days  
 B's whole work =  $8 \times 2$   
 $= 16$  days

Q.No. (23)

Q.No. (24)

$$\begin{array}{l} MP - C.P = 1600 \text{ --- (1)} \\ MP - 500 = S.P \\ S.P = \frac{125}{100} C.P \\ S.P = \frac{5}{4} C.P \\ MP - 500 = \frac{5}{4} C.P \\ MP - \frac{5}{4} C.P = 500 \text{ --- (2)} \\ \text{By solving equations (1) and (2)} \\ C.P = 4400 \\ SP = 4400 \times \frac{130}{100} \Rightarrow 5720 \end{array}$$

$$\begin{array}{l} \text{Three digit} = x, y, z \\ \text{(1)} 100x + 30 + z - (100z + 30 + x) = 396 \\ \Rightarrow 100x + 30 + z - 100z - 30 - x = 396 \\ \Rightarrow 99x - 99z = 396 \\ 99(x - z) = 396 \\ x - z = 4 \\ x + z = 14 \\ \hline 2x = 18 \\ x = 9 \\ y = 3 \quad z = 5 \end{array}$$

Q.No. (27)

Train A : Train B

$$5 \times 4 : 8 \times 3$$

$$20 : 24$$

$$5x : 6x = 11x$$

$$\text{Difference} = 6x - 5x = x$$

$$11x = 660$$

$$x = 60$$

Q.No. (28)

Q.No. (29)

41, 164, 2624, ?, 6045696

$$\Rightarrow 41 \times (2)^2 = 164$$

$$\Rightarrow 164 \times (4)^2 = 2624$$

$$\Rightarrow 2624 \times (8)^2 = 94464$$

$$\Rightarrow 94464 \times (8)^2 = 6045696$$

Q.No. (30)

14, 43.5, 264, ?, 76188

$$\Rightarrow 14 \times 3 + 1.5 = 43.5$$

$$\Rightarrow 43.5 \times 6 + 3 = 264$$

$$\Rightarrow 264 \times 12 + 6 = 3174$$

$$\Rightarrow 3174 \times 24 + 12 = 76188$$

Q.No. (31)

$274, 301, 426, 769, 1498, ?$   
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$   
 $27 \quad 125 \quad 343 \quad 729 \quad 1331$   
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$   
 $(3)^3 \quad (5)^3 \quad (7)^3 \quad (9)^3 \quad (11)^3$   
 Missing No  $\rightarrow 1498 + 1331$   
 $\Rightarrow 2829$

Q.No. (32)

$626, 104, 866, 3334, 16666, ?$   
 $\Rightarrow 6 \times 5 - 4 = 26$   
 $\Rightarrow 26 \times 5 + 4 = 134$   
 $\Rightarrow 134 \times 5 - 4 = 666$   
 $\Rightarrow 666 \times 5 + 4 = 3334$   
 $\Rightarrow 3334 \times 5 - 4 = 16666$   
 $\Rightarrow 16666 \times 5 - 4 = 83326$

Q.No. (33)

~~$949, 189.8, ?, 22.726, 11.388$~~   
 ~~$8.8328$~~

$\Rightarrow$

Q.No. (34)

$3739.98 + 164.89 \times 29.95 = ?$   
 $\Rightarrow 3740 + 165 \times 30$   
 $\Rightarrow 8690$

Q.No. (35)

$6524.98 \div 544.88 \times 1.02 = ?$   
 Let  $6525 \div 545 \times 1 = ?$   
 Approx 12

Q.No. (36)

$51\% \text{ of } 5086 - \frac{3}{7} \text{ of } 899 = ?$   
 $2590 - 385$   
~~App~~  $\Rightarrow 2205$   
 Approx = 2215



Q.No. (37)

$$21 + 4.9 \times 7.9 + 9.88 = ?$$

$$\Rightarrow 21 + 5 \times 8 + 10 = ?$$

$$\Rightarrow 21 + 40 + 10 = ?$$

$$\Rightarrow 71$$

Q.No. (38)

Electrical Branch

$$\text{Hockey} + \text{Football} = 320 \times \frac{45}{100}$$

$$\Rightarrow 144$$

Electronics Branch

$$\text{Hockey} + \text{Football} = 300 \times \frac{46}{100}$$

$$\Rightarrow 138$$

$$\text{Diff} = 144 - 138 = 6$$

Q.No. (39) (42)

Q.No. (39)

Can't be determined.

Q.No. (40)

$$\Rightarrow \frac{H + \text{Football (Computer Science)}}{H + F (\text{Mechanical})} \times 100$$

$$\Rightarrow \frac{450 \times \frac{50}{100}}{480 \times \frac{40}{100}} \times 100$$

$$\text{Approx } 117$$

Q.No. (41)

Football Player

$$\text{Mechanical} = 480 \times \frac{15}{100} = 72$$

$$\text{Electrical} = 320 \times \frac{25}{100} = 80$$

$$\text{Civil} = 260 \times \frac{20}{100} = 52$$

$$\text{Comp. Scie} = 450 \times \frac{40}{100} = 180$$

$$\text{Electronics} = 300 \times \frac{30}{100} = 90$$

$$\text{Average} = \frac{448}{5} = 89.6 \quad \text{Approx } 90$$



<p>Q.No. (43)</p> $\Rightarrow \frac{48+64}{36+60} \times 100$ $\Rightarrow \frac{112}{96} \times 100$ $\Rightarrow \frac{350}{3}$ <p>More = <math>\frac{350}{3} - 100</math></p> $\Rightarrow \frac{50}{3} \%$	<p>Q.No. (44)</p> $\Rightarrow \frac{236}{264} \times 100$ $\Rightarrow 89.39$
<p>Q.No. (45)</p> <p>Tuesday = <math>60 + 36 = 96</math></p> <p>Avg = <math>\frac{96}{2} = 48</math></p> <p>Friday = <math>50 + 56 = 106</math></p> <p>Avg = <math>\frac{106}{2} \Rightarrow 53</math></p> <p>Diff = <math>53 - 48</math></p> <p>= 5</p>	<p>Q.No. (46)</p> <p><math>\Rightarrow A+B</math> (Monday) = 82</p> <p><math>\Rightarrow A+B</math> (Thursday) = 112</p> <p>Ratio</p> <p>Monday : Thursday</p> <p>82 : 112</p> <p>41 : 56</p>
<p>Q.No. (47)</p> $\Rightarrow (\sqrt{80-997} - \sqrt{25.04}) \times (\sqrt{20.98} + \sqrt{16.02}) = ?$ $\Rightarrow (\sqrt{81} - \sqrt{25}) \times (\sqrt{121} + \sqrt{16})$ $\Rightarrow (9-5) (11+4)$ $\Rightarrow 4 \times 15$ $\Rightarrow 60$	<p>Q.No. (48)</p> $53 - 345 \div 23 = 2 \times ?$ $53 - 15 = 2 \times ?$ $\Rightarrow ? = \frac{38}{2}$ $? = 19$

Q.No. (50)

$$\Rightarrow (184 - 29 \div 5) \times 30 = ?$$

$$\Rightarrow (184 - 6) \times 30$$

$$\Rightarrow 178 \times 30$$

$$\Rightarrow 5340$$

Q.No. (49)

$$\Rightarrow \sqrt{3099.9 \div (62.001 + 14.001)} = ?$$

$$\Rightarrow \sqrt{3400 \div 62 + 14}$$

$$\Rightarrow \sqrt{50 + 14}$$

$$\Rightarrow \sqrt{64}$$

$$\Rightarrow 8$$

Q.No. (51)

$$\Rightarrow (112 \times 51) \div 14 = 11 + ?$$

$$\Rightarrow 5712 \div 14 = 11 + ?$$

$$\Rightarrow 408 = 11 + ?$$

$$\Rightarrow ? = 397$$

Q.No.

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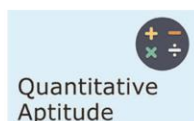
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### Percentage

 Sahil  
SHARED INFO . 4 Apr . Chandigarh

Q1. In an examination, 35% students failed in maths, 47% students failed in English while 12% failed in both. If total passed students are 750. Find



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 Manpreet  
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### Basic Computer Organization

 Dinesh Lohiya  
SHARED INFO . 11 Apr . Chandigarh

As we know compute works on the IPO model. IPO stands for Information processing and output. The information processing cycle is