QUANTITATIVE APTITUDE SOLUTION

(MEMORY BASED PAPERS)

IBPS PO (PRE) Exam 2017

Q.No. (1)

3, 5, 13, 43, 177

⇒ $3 \times 1 + 2 = 5$

$5 \times 2 + 3 = 13$

$13 \times 3 + 4 = 43$

$43 \times 4 + 5 = 177$

$177 \times 5 + 6 = 891$

Q.No. (2)

68, 117, 61, 124, 54, 131

−7 −7

+7 +7

Ans ⇒ 131

Q.No. (3)

7, 7, 13, 37, 97, ?

⇒ $7 \times 1 - 0 = 7$

⇒ $7 \times 2 - 1 = 13$

⇒ $13 \times 3 - 2 = 37$

⇒ $37 \times 4 - 3 = 145$

Ans ⇒ 145

Q.No. (4)

3.25, 6.5, 19.5, 78, 390, ?

⇒ $3.25 \times 2 = 6.5$

⇒ $6.5 \times 3 = 19.5$

⇒ $19.5 \times 4 = 78$

⇒ $78 \times 5 = 390$

⇒ $390 \times 6 = 2340$

Ans ⇒ 2340

Q.No. (5)

.9, 3.5, 2.5, 4, 15, ?

⇒ $.9 \times .5 - .4 = 3.5$

⇒ $3.5 \times 1 - 1 = 2.5$

⇒ $2.5 \times 2 - 1 = 4$

⇒ $4 \times 4 - 1 = 15$

⇒ $15 \times 8 - 1 = 119$

Ans ⇒ 119

Q.No. (6)

3, 4, 9, 28, 113, ?

⇒ $3 \times 1 + 1 = 4$

⇒ $4 \times 2 + 1 = 9$

⇒ $9 \times 3 + 1 = 28$

⇒ $28 \times 4 + 1 = 113$

⇒ $113 \times 5 + 1 = 566$

Ans ⇒ 566

Q.No. (7)

11, 5, 4, 4.5, 7, ?

⇒ 11 × .5 − .5 = 5

⇒ 5 × 1 − 1 = 4

⇒ 4 × .5 − 1.5 = 4.5

⇒ 4.5 × 2 − 2 = 7

⇒ 7 × 2.5 − 2.5 = 15

Ans ⇒ 15

Q.No. (8)

104, 102, 96, 84, ?, 34

⇒ −02 −6 −12 −20 −30

4 6 8 10

Missing No. should be

⇒ 84 − 20

⇒ 64

Q.No. (9)

3072, 192, 24, 6, ?, 3

⇒ 3072 ÷ 16 = 192

⇒ 192 ÷ 8 = 24

⇒ 24 ÷ 4 = 6

⇒ 6 ÷ 2 = 3

⇒ 3 ÷ 1 = 3

Q.No. (10)

6, 24, 130, 410, 468, 490, ?

24 106 280 58 22 4

144 72 36 18

Missing No. ⇒ 490 + 4 = 494

Q.No. (11)

9, 5, 6, 10.5, 23, ?

⇒ 9 × .5 + .5 = 5

⇒ 5 × 1 + 1 = 6

⇒ 6 × 1.5 + 1.5 = 10.5

⇒ 10.5 × 2 + 2 = 23

⇒ 23 × 2.5 + 2.5 = 60

Q.No. (12)

18, 20, 26, 38, ?, 88

⇒ 2 6 12 20 30

4 6 8 10

Missing No. ⇒ 38 + 20 = 58

Q.No. (13)

1, 20, 58, 134, 286, ?

19 38 76 152 304

Diff ⇒ 19×2 = 38

38×2 = 76

76×2 = 152

152×2 = 304

Missing No. → 286 + 304

⇒ 590

Q.No. (14)

8, 7, 13, 38, 151, ?

⇒ 8×1 − 1 = 7

⇒ 7×2 − 1 = 13

⇒ 13×3 − 1 = 39

⇒ 39×4 − 1 = 151

⇒ 151×5 − 1 = 754

Q.No. (15)

32, ?, 1024, 2048, 2048

⇒ 32×8 = 256

⇒ 256×4 = 1024

⇒ 1024×2 = 2048

⇒ 2048×1 = 2048

Q.No. (16)

+9 +9

17, 98, 26, 89, 35, ?

−9 −9

Missing No → 89 − 9

⇒ 80

Q.No. (17)

2, 17, 89, 359, 1079, ?

⇒ 2×6 + 5 = 17

17×5 + 4 = 89

89×4 + 3 = 359

359×3 + 2 = 1079

1079×2 + 1 = 2159

Q.No. (18)

7, 4.5, 5.5, 12, 49, ?

⇒ 7×.5 + 1 = 4.5

4.5×1 + 1 = 5.5

5.5×2 + 1 = 12

12×4 + 1 = 49

49×8 + 1 = 393

Q.No. (18)

3, 5, 15, 45, 113, ?

⇒ 2, 10, 30, 68, 130

8, 20, 38, 62

12, 18, 24

Next No. should be

⇒ 113 + 130

⇒ 243

Q.No. (20)

3240, 540, 108, 27, ?, 4.5

⇒ 3240 ÷ 6 = 540

⇒ 540 ÷ 5 = 108

⇒ 108 ÷ 4 = 27

⇒ 27 ÷ 3 = 9

⇒ 9 ÷ 2 = 4.5

Missing No → 9

Q.No. (21)

Q.No. (22)

A can do a work in 24 days

$\frac{1}{3}$ work in = $\frac{24}{3}$ ⇒ 8 days

B's $\frac{1}{2}$ work in 8 days

B's whole work = 8 × 2

= 16 days

Q.No. (23)

MP − C.P = 1600 — (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 − $\frac{5}{4}$ CP = 500 — (2)

By solving equations (1) and (2)

C.P = 4400

SP = $4400 \times \frac{130}{100}$ ⇒ 5720

Q.No. (25)

Three digit = x, y, 2

(1) 100x + 30 + 2 − (1002 + 30 + x) = 396

⇒ 100x + 30 + 2 − 1002 − 30 − x = 396

⇒ 99x − 99 = 396

99(x − 1) = 396

x − 1 = 4

x + 1 = 14

2x = 18

x = 9

y = 3 2 = 5

Q.No. (27)

Train A : Train B

$5 \times 4 : 8 \times 3$

$20 : 24$

$5x : 6x = 11x$

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, ?

27 125 343 729 1331

$(3)^3$ $(5)^3$ $(7)^3$ $(9)^3$ $(11)^3$

Missing No → 1498 + 1331

⇒ 2829

Q.No. 32

626, 134, 666, 3334, 16666, ?

⇒ 6 × 5 − 4 = 26

⇒ 26 × 5 + 4 = 134

⇒ 134 × 5 − 4 = 666

⇒ 666 × 5 + 4 = 3334

⇒ 3334 × 5 − 4 = 16666

⇒ 16666 × 5 − 4 = 83326

Q.No. 33

~~949, 189.8, ?, 22.226, 11.388~~

~~8.8328~~

⇒

Q.No. 34

3739.98 + 164.89 × 29.95 = ?

⇒ 3740 + 165 × 30

⇒ 8690

Q.No. 35

6524.98 ÷ 544.88 × 1.02 = ?

Let 6525 ÷ 545 × 1 = ?

Approx 12

Q.No. 36

51% of 5086 − $\frac{3}{7}$ of 899 = ?

2590 − 385

~~Approx~~ ⇒ 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

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

$\Rightarrow 144$

Electronics Branch

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

$\Rightarrow 138$

Diff $= 144 - 138 = 6$

Q.No. (42)

Q.No. (39)

Can't be determined.

Q.No. (40)

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

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

Approx 117

Q.No. (41)

Football Player

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

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

Civil $= 260 \times \frac{10}{100} = 26$

Comp. Sce $= 450 \times \frac{40}{100} \Rightarrow 180$

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

448

Average $= \frac{448}{5} = 89.6$

Approx 90

Q.No. (43)

$\Rightarrow \frac{48+64}{36+60} \times 100$

$\Rightarrow \frac{112}{96} \times 100$

$\Rightarrow \frac{350}{3}$

More $= \frac{350}{3} - 100$

$\Rightarrow \frac{50}{3}\%$

Q.No. (44)

$\Rightarrow \frac{236}{264} \times 100$

$\Rightarrow 89.39$

Q.No. (45)

Tuesday $= 60 + 36 = 96$

Avg $= \frac{96}{2} = 48$

Friday $= 50 + 56 = 106$

Avg $= \frac{106}{2} \Rightarrow 53$

Diff $= 53 - 48$

$= 5$

Q.No. (46)

$\Rightarrow A+B$ (Monday) $= 82$

$\Rightarrow A+B$ (Thursday) $= 112$

Ratio

Monday : Thursday

82 : 112

41 : 56

Q.No. (47)

$\Rightarrow (\sqrt{80.997} - \sqrt{25.01}) \times (\sqrt{120.98} + \sqrt{16.02}) = ?$

$\Rightarrow (\sqrt{81} - \sqrt{25}) \times (\sqrt{121} + \sqrt{16})$

$\Rightarrow (9-5)(11+4)$

$\Rightarrow 4 \times 15$

$\Rightarrow 60$

Q.No. (48)

$53 - 345 \div 23 = 2 \times ?$

$\Rightarrow 53 - 15 = 2 \times ?$

$\Rightarrow ? = \frac{38}{2}$

$? = 19$

Q.No. (50)

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

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

$\Rightarrow 178 \times 30$

$\Rightarrow 5340$

Q.No. (49)

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

$\Rightarrow \sqrt{3100 \div 62 + 14}$

$\Rightarrow \sqrt{50 + 14}$

$\Rightarrow \sqrt{64}$

$\Rightarrow 8$

Q.No. (51)

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

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

$\Rightarrow 408 = 11 + ?$

$\Rightarrow ? = 397$

Q.No.