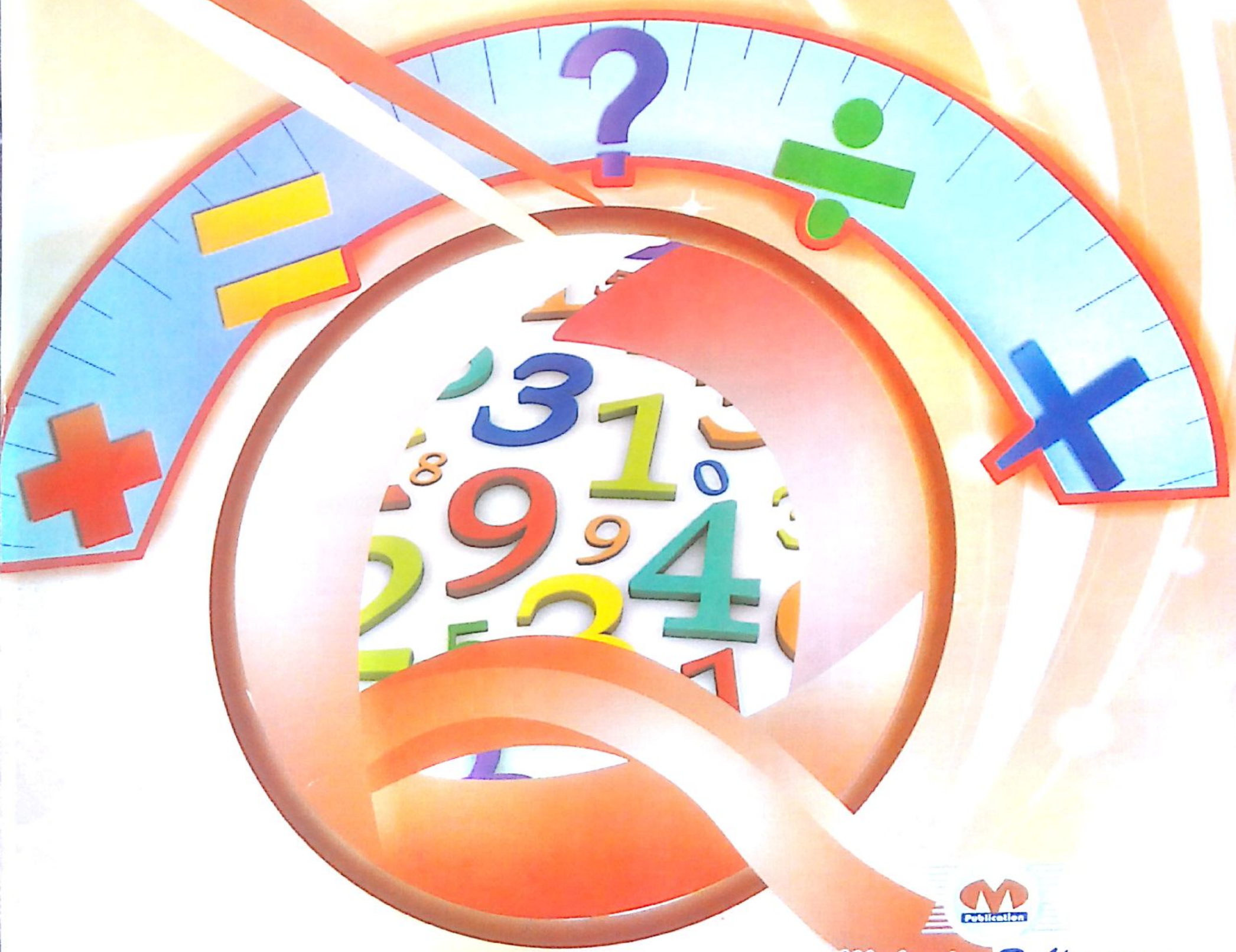
Mahendra's

MASTER IN QUANTITATIVE Aptitude

Vol-2



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PREFACE.

...

We are now living in a world which is technology-driven. Day by day, the pattern of examination alongwith its criteria for selection is becoming tougher and tougher, with the demand for qualified professionals on a rise. With this increasing pressure, one has to be efficient but not at the cost of accuracy.

Now-a-days, an examinee is made to face an objective type or multiple choice questions. For a number of candidates preparing for competitive examinations like PO, Assistant and other exams, the subject of Quantitative Aptitude is frightening.

Quantitative Aptitude is a subject which can help a candidate score high. the pattern of questions appearing in various examination in this section has undergone radical changes in the last few years. The direct and simple questions are being replaced by some lengthy or tricky brain-teasers. This calls for a change in its approach of attempting those questions. This book has attempted to motivate and encourage the candidates to have a better grasping power as the key factor in tackling these examinations because rather than having a deeper knowledge in mathematics, it is the strategy to crack the problems quickly and accurately.

If this book will be able to guide the students to get his/her final selection in PO and other competitive examinations, we shall have the satisfaction of knowing that our labour has well been rewarded.

Any suggestion to improvement of this book qualitatively (including printing errors, if any) will be most welcomed and these will be incorporated in the next issues.

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✪ Publishers

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TEST - 1
QUANTITATIVE APTITUDE

Q.1-25. What will come in place of question mark (?). in the following questions ?

Q.1. $\left(\sqrt{3}+1\right)^2 = ? + \sqrt{12}$

(1) $2\sqrt{3}+4$ (2) $\sqrt{3}$ (3) $\sqrt{2}$ (4) 4 (5) None of these

Q.2. $9 \times 81 \div 27 = (3)^?$

(1) 2 (2) 3 (3) 4 (4) 5 (5) None of these

Q.3. $1\frac{3}{5} + 2\frac{5}{6} - 3\frac{1}{3} = ?$

(1) $1\frac{1}{10}$ (2) $2\frac{1}{10}$ (3) $1\frac{1}{30}$ (4) $2\frac{1}{5}$ (5) None of these

Q.4. $\frac{832}{24} \times \frac{84}{26} \div \frac{252}{72} = ?$

(1) 64 (2) 16 (3) 32 (4) 128 (5) None of these

Q.5. $\frac{2}{7}$ of $\frac{4}{5}$ of 245 = ? - 56

(1) 112 (2) 28 (3) 126 (4) 56 (5) None of these

Q.6. $[(7)^2-(6)^2] \div 26 = 18 \div ?$

(1) 18 (2) 36 (3) 9 (4) 40 (5) None of these

Q.7. $\frac{96 \times \sqrt{49}}{\sqrt{196}} = ? \times \sqrt{36}$

(1) 16 (2) 48 (3) 96 (4) 32 (5) None of these

Q.8. $7 \times 24 \div 8 - 10 = (?)^2$

(1) 11 (2) $\sqrt{11}$ (3) $(11)^2$ (4) $(11)^3$ (5) 132

Q.9. 35% of 200 - 45% of 340 = ? -150

(1) 67 (2) 233 (3) 57 (4) 333 (5) None of these

Q.10. 326 - 441 + 1130 = ? - 141

(1) 1166 (2) 864 (3) 1156 (4) 874 (5) None of these

Q.11. 128.38 - 43.86 + 15.71 - 38.62 = ?

(1) 60.61 (2) 61.26 (3) 71.71 (4) 61.61 (5) None of these

Q.12. $(863-447) \div 4 = ? \times 4$

(1) 24 (2) 13 (3) 104 (4) 116 (5) None of these

Q.13. $2\frac{3}{7} - 2\frac{1}{4} - 1\frac{1}{14} + 1\frac{1}{28} = ?$

(1) $\frac{1}{7}$ (2) $1\frac{1}{7}$ (3) $1\frac{1}{14}$ (4) $\frac{2}{7}$ (5) None of these

Q.14. $\frac{4230-1846}{16} = (?)^2 - 20$

(1) 13 (2) $\sqrt{13}$ (3) 169 (4) $13\sqrt{13}$ (5) None of these

Q.15. $2^5 - 3^4 + 4^3 - 5^2 + 7^2 = (?)^2 + \sqrt{9}$

(1) $(36)^2$ (2) 4 (3) 6 (4) 36 (5) $\sqrt{6}$

Q.16. $\sqrt{2.25} \times (12)^2 = (?)^3$

(1) 64 (2) 36 (3) $\sqrt{6}$ (4) 6 (5) None of these

Q.17. 25% of 1020 - (?)% of 1220 = 72

(1) 5 (2) 15 (3) 25 (4) 30 (5) None of these

Q.18. $\frac{7}{8}$ of 90% of 160 = ?

(1) 112 (2) 146 (3) 126 (4) 116 (5) None of these

Q.19. 4786 + 8647 - 4687 - 6747 = ?

(1) 1989 (2) 1998 (3) 1969 (4) 1778 (5) None of these

Q.20. 724 - 336 + 499 = ?+ 112

(1) 765 (2) 745 (3) 551 (4) 641 (5) None of these

Q.21. 26% of 320 - 62.70 + 33.50 =?

(1) 54 (2) 64 (3) 66 (4) 44 (5) None of these

Q.22. $\frac{7}{12}$ of 23% of 720 = ?

(1) 86.6 (2) 96.6 (3) 144.8 (4) 156.6 (5) None of these

Q.23. $\left(\sqrt{8}\right)^6 \times (64)^3 \div 8^4 = (8)^?$

(1) 3 (2) 4 (3) 5 (4) 7 (5) None of these

Q.24. $432 \div 72 \times 12 + 28 = ?$

(1) 102 (2) 100 (3) 96 (4) 110 (5) None of these

Q.25. $504 \div 42 \times 7 - 63 + 28 = ?$

(1) 7^2 (2) 48 (3) 6^2 (4) 38 (5) None of these

Q.26. The average speed of a car is two-third of the average speed of a train which travels 270 kms. in 3 hours. How much distance will the car cover in 5 hours ?

(1) 360 kms. (2) 420 kms (3) 300 kms. (4) 180 kms. (5) None of these

Q.27. The postal charges for booking a parcel of 500 grams are Rs.60/-. What will be the postal charges for booking a parcel of 5.5 kg.?

(1) Rs.650/- (2) Rs.680/- (3) Rs.330/- (4) Rs.660/- (5) None of these

Q.28. Suresh drinks 450 ml of milk every day. How many litres of milk will he consume in two weeks ?

(1) 0.63 litres (2) 6.7 litres (3) 12.3 litres
(4) 6.3 litres (5) None of these,

Q.29. A newspaper vendor sells a newspaper per day at the rate of Rs.5/- per copy and earns a commission of 15%. If he sells 1200 copies of newspaper a day, how much commission will he earn in a week ?

(1) Rs. 7200/- (2) Rs.5,600/- (3) Rs.900/-
(4) Rs.6,300/- (5) None of these

Q.30. A fodder stock lasts for 36 days for 20 cows. How long will it last for 15 cows ?

(1) 54 days (2) 42 days (3) 56 days (4) 46 days (5) None of these

Q.31. The sum of seven consecutive numbers is 168. What is the sum of the first and the last number?

(1) 58 (2) 49 (3) 48 (4) 47 (5) 57

Q.32. Twenty-seven percent of Arun's monthly salary is equal to Raju's monthly salary. If Arun's monthly salary is Rs.25,000, then what is Raju's annual salary ?

(1) Rs.87,000/- (2) Rs.8,10,000/- (3) Rs.1,11,000/-
(4) Rs.57,000/- (5) None of these

Q.33. Rahul purchased 124 notebooks, Sunil purchased 86 notebooks, Manish purchased 132 notebooks and Mona purchased 146 notebooks. What was the average number of notebooks they purchased?

(1) 112 (2) 122 (3) 488 (4) 98 (5) None of these

Q.34. What is the value of two-fifth of sixty-five percent of 750 ?
(1) 185.75 (2) 195 (3) 975 (4) 243.75 (5) None of these

Q.35. Jyoti's monthly expense on shopping is 25%, travelling is 20%, food is 45% and 10% on recreational activities. What is the total amount she spend on travelling and food together ?
(1) Rs.15,000/- (2) Rs.18,000/- (3) Rs.12,050/-
(4) Cannot be determined (5) None of these

Q.36. The area of a rectangle is 360 sq. cms. which is equal to 90% of the area of a square. What is the side of the square ?
(1) 20 cms (2) 15 cms. (3) 40 cms. (4) 25 cms. (5) None of these

Q.37. The diagonal and breadth of a rectangle is 10 cms. and 6 cms. respectively. What is the perimeter of the rectangle ?
(1) 32 cms (2) 28 cms. (3) 56 cms.
(4) Cannot be determined (5) None of these

Q.38. The bus fare of one adult is Rs.148/- from Tinsukia to Digboi and bus fare of a child is half the fare of one adult between the same places. What is the total bus fare of 3 adults and 3 children between same places ?
(1) Rs.666/- (2) Rs.448/- (3) Rs.555/-
(4) Rs.686/- (5) None of these

Q.39. Renu earns a profit of 18% on selling an item for Rs. 1416/-. What is the cost price of the item?
(1) Rs.1,200/- (2) Rs.1,240/- (3) Rs.1,100/-
(4) Rs.1,140/- (5) None of these

Q.40. Sonu purchased 13 tables of Rs.110/- each. How many chairs can he purchase from same amount if each chair cost Rs.65/-?
(1) 11 (2) 22 (3) 39 (4) 13 (5) None of these

Q.41. The respective ratio between the angles of a quadrilateral is 1 : 2 : 3 : 4. What is the sum of the twice the smallest angle and half the largest angle together ?
(1) 180° (2) 216° (3) 160°
(4) 144° (5) None of these

Q.42. What is the smallest number which when divided by 8, 10 or 12 gives the remainder 7 ?
(1) 127 (2) 137 (3) 267 (4) 177 (5) None of these

Q.43. In how many years will a man get a simple interest on Rs.1,428/- on a principal of Rs. 4,080/- at the rate of 7 p.c.p.a.?
(1) 4 years (2) 6 years (3) 5 years (4) 8 years (5) None of these

Q.44. Last year Ajay planted 170 mango trees. He increased the number of trees planted by 40% this year. How many mango trees will he plant this year ?
(1) 248 (2) 228 (3) 238 (4) 328 (5) None of these

Q.45. What will come in place of both the question marks (?) in the following question ?

$$\frac{?}{17} = \frac{68}{?}$$

(1) 44 (2) 24 (3) 54 (4) 38 (5) 34

Q.46-47. What **approximate** value should come in place of the question mark (?) in the following questions ? (You are not expected to calculate the exact value.)

Q.46. $\sqrt{1000} + \sqrt{350} + \sqrt{20} = ?$
(1) 45 (2) 55 (3) 65 (4) 50 (5) 60

Q.47. 49 x 102 ÷ 19 + 199.86 = ?
(1) 460 (2) 410 (3) 490 (4) 510 (5) 390

Q.48-49. What should come in place of question mark (?) in the following number series ?

Q.48. 5 9 17 33 65 (?)
(1) 127 (2) 9.7 (3) 129 (4) 87 (5) None of these

Q.49. 320 285 257 236 222 (?)
(1) 215 (2) 208 (3) 201 (4) 211 (5) None of these

Q.50. If $(19)^2$ is added to a number, the value so obtained is $(23)^2$. What is the number ?
(1) 165 (2) 166 (3) 178 (4) 158 (5) None of these

TEST-2
QUANTITATIVE APTITUDE

Q.1-25. What value will come in place of question mark (?) in the questions given below ?

Q.1. (863 - 447) ÷ 4 = 26 × ?
(1) 8 (2) 24 (3) 4 (4) 3 (5) None of these

Q.2. $2^5 - 3^4 + 4^3 - 5^2 + 7^2 = (6)^2 + \sqrt{?}$
(1) 9 (2) 3 (3) $(9)^2$ (4) $\sqrt{3}$ (5) None of these

Q.3. 35% of 200 - 45% of 340 = 67 - ?
(1) 75 (2) 150 (3) 100 (4) 125 (5) None of these

Q.4. $[(7)^2 - (6)^2] \div 26 = ? \div 36$
(1) 22 (2) 18 (3) 20 (4) 24 (5) None of these

Q.5. $(\sqrt{8})^6 \times (64)^3 \div (8)^7 = (8)^5$
(1) 3 (2) 1 (3) 5 (4) 6 (5) None of these

Q.6. 724 - 336 + 499 = 775 + ?
(1) 110 (2) 115 (3) 120 (4) 108 (5) None of these

Q.7. ?% of 1020 - 15% of 1220 = 72
(1) 20 (2) 18 (3) 25 (4) 28 (5) None of these

Q.8. $\frac{96 \times \sqrt{49}}{\sqrt{196}} = 8 \times \sqrt{?}$
(1) 36 (2) 6 (3) 36^2 (4) 16 (5) None of these

Q.9. $\frac{2}{7}$ of $\frac{4}{5}$ of 245 = 112 - ?
(1) 50 (2) 58 (3) 54 (4) 60 (5) None of these

Q.10. 750.46 + 114.09 - 840.04 = 37.6 - ?
(1) 13.09 (2) 30.19 (3) 93.01 (4) 13.9 (5) None of these

Q.11. $2\frac{1}{9} \times 1\frac{2}{19} \div 2\frac{1}{3} = ?$
(1) 3 (2) $\frac{1}{4}$ (3) $2\frac{1}{4}$ (4) 2 (5) None of these

Q.12. 6235 + 433 - 68 = 5253 + ?
(1) 1345 (2) 1348 (3) 1342 (4) 1347 (5) None of these

Q.13. 624 ÷ ? × 3 + 110 = 182
(1) 13 (2) 26 (3) 20 (4) 18 (5) None of these

Q.14. 12% of 580 + 24.4 = ?
(1) 92 (2) 94 (3) 96 (4) 90 (5) None of these

Q.15. $\sqrt{6.25} \div 0.05 = ?$
(1) 2.5 (2) 5 (3) 50 (4) 500 (5) None of these

Q.16. 0.08 × 2.3 × ? = 0.2944
(1) 1.5 (2) 1.2 (3) 1.4 (4) 1.8 (5) None of these

Q.17. $[(?)^2 + (16)^2] \div 125 = 3.2$
(1) 11 (2) 14 (3) 16 (4) 13 (5) None of these

Q.18. $\frac{14 \times 2.8}{0.07} = ?$

(1) 4.9 (2) 7 (3) 56 (4) 0.7 (5) None of these

Q.19. $744 \div 32 \times 0.4 = ?$

(1) 8.7 (2) 9.8 (3) 8.0 (4) 9.3 (5) None of these

Q.20. 45% of ? - 48% of 1105 = 911.40

(1) 3204 (2) 3402 (3) 3604 (4) 3406 (5) None of these

Q.21. $(408 + ? + 102) \div (240 - 158 - 57) = 29.2$

(1) 240 (2) 220 (3) 200 (4) 250 (5) None of these

Q.22. $(154 - 430) \div 6 = 138 \div ?$

(1) 3 (2) -3 (3) 9 (4) -9 (5) None of these

Q.23. $(15 \times 7) - (17 \times 3) - ? = 100 \div 5$

(1) 32 (2) 30 (3) 36 (4) 35 (5) None of these

Q.24. 4985.23 + ? + 5595.25 = 14022.12

(1) 3832.24 (2) 3513.14 (3) 3426.36 (4) 3441.64 (5) None of these

Q.25. $\frac{2}{5} \times ? \times 1\frac{1}{3} = \frac{7}{15}$

(1) $\frac{5}{6}$ (2) $\frac{1}{8}$ (3) $\frac{1}{3}$ (4) $\frac{7}{8}$ (5) None of these

Q.26. Car 'X' covers 385 km distance in 7 hours. and car 'Y' covers 715 km distance in 13 hours. What is the sum of speed of both cars ?

(1) 105 km/hrs. (2) 103 km/hrs. (3) 110 km/hrs.
(4) 100 km/hrs. (5) None of these

Q.27. The ratio of present ages of Suneeta and Vineeta is 4 : 5. After 6 years, the ratio of their ages will be 14 : 17. What is Suneeta's present age ?

(1) 45 years (2) 36 years (3) 42 years
(4) 40 years (5) None of these

Q.28. The owner of a shop marked his good 15% more than the cost price. If a customer paid Rs. 7889/- for a sofa. What is the cost price of Sofa ?

(1) Rs. 6680/- (2) Rs. 6860/- (3) Rs. 6480/-
(4) Rs. 6280/- (5) None of these

Q.29. In an examination, it is required to get 45% marks to pass. Jasvindar got 608 marks and failed by 67 marks. What is the maximum marks in the examination ?

(1) 1500 (2) 1650 (3) 1625
(4) 1600 (5) None of these

Q.30. An angle of a quadrilateral is 52°. What is the sum of half of its largest angle and twice the smallest angle ?

(1) 258° (2) 306° (3) 298°
(4) Data inadequate (5) None of these

Q.31. In how many different ways can the letters of the word **'PRUDENT'** be arranged ?

(1) 720 (2) 360 (3) 180
(4) 5040 (5) None of these

Q.32. In a wild life sanctuary there were 820 tigers in last year. This year their numbers are increased by 15%. How many tigers are there in wild life sanctuary in this year ?

(1) 828 (2) 943 (3) 916
(4) 928 (5) None of these

Q.33. The area of rectangle is 450 cm², which is 50% of the area of a square. What is the perimeter of the square ?

(1) 80 cm (2) 160 cm (3) 40 cm
(4) 120 cm (5) None of these

Q.34. Shraddha saves Rs. 15,320/- per month. How much amount will she save in 2 years and 5 months ?

(1) Rs. 4,44,280/- (2) Rs. 4,46,260/- (3) Rs. 4,48,220
(4) Rs. 4,24,000/- (5) None of these

Q.35. Out of fractions $\frac{3}{7}, \frac{2}{9}, \frac{4}{13}, \frac{6}{11}$ and $\frac{7}{9}$, which is the second smallest fraction ?

(1) $\frac{3}{7}$ (2) $\frac{2}{9}$ (3) $\frac{4}{13}$ (4) $\frac{6}{11}$ (5) $\frac{7}{9}$

Q.36. Ajeet has Rs. 26/- more than Anuj. Anuj has Rs. 60/- more than Ravi. If total amount with all the three is Rs. 200/-, What is Anuj's amount ?

(1) Rs. 70/- (2) Rs. 72/- (3) Rs. 75/-
(4) Rs. 80/- (5) None of these

Q.37. The ratio of angles of a quadrilateral is 1 : 2 : 3 : 4. What is the sum of twice the second smallest angle and half of the largest angle ?

(1) 72° (2) 144° (3) 108° (4) 216° (5) None of these

Q.38. Rahul bought 86 notebooks, Anil bought 124 notebooks, Mohit bought 132 notebooks and Madhu bought 150 notebooks. What is the average number of notebooks bought by them ?

(1) 113 (2) 492 (3) 96 (4) 124 (5) None of these

Q.39. 24% of Amit's monthly income is equal to Sumeet's monthly income. Amit's monthly income is Rs. 3200/. What is Sumeet's annual income ?

(1) Rs. 9216/- (2) Rs. 9800/- (3) Rs. 1,06,00
(4) Rs. 81,000/- (5) None of these

Q.40. A rope is cut in 36 parts of each 8 m. If length of each part is increased by 4 m, how many parts will be formed ?

(1) 24 (2) 72 (3) 18 (4) 20 (5) None of these

Q.41-42. What value will come in place of question mark (?) in the series given below ?

Q.41. 147, 144, 138, 126, 102, ?

(1) 52 (2) 54 (3) 56 (4) 50 (5) None of these

Q.42. 22, 31, 49, 76, 112, ?

(1) 165 (2) 156 (3) 157 (4) 174 (5) None of these

Q.43. The area of a circle is 38.5 cm². What is its circumference ?

(1) 22 cm (2) 21 cm (3) 20 cm (4) 24 cm (5) None of these

Q.44. The ratio of present ages of a woman and a man is 5 : 4. 4 years ago, the man's age was 28 years. What will be woman's age after 6 years ?

(1) 42 years (2) 40 years (3) 45 years (4) 46 years (5) None of these

Q.45. What **approximate** value will come in place of question mark (?) in the question given below ?

$1136.56 \div 49.99 \times 9.87 = ?$

(1) 250 (2) 300 (3) 200 (4) 230 (5) 270

Q.46-50. In the following questions in the place of question mark which sign would be prefered.

(1) > (greater than) (2) = (equal to) (3) < (less than)
(4) ≥ (either greater than or equal to) (5) ≤ (either less than or equal to)

Q.46. [38% of 650 - 55] ? [32% of 750 - 42]

Q.47. [1521 ÷ 39 + 61] ? [408 - 195 - 102]

Q.48. $\left[\frac{4}{5} + \frac{3}{4} - \frac{1}{6}\right] ? \left[\frac{2}{3} - \frac{4}{7} + \frac{5}{6}\right]$

Q.49. $\left[\left\{32 \times (512)^{1/3}\right\} \div (16)\right] ? \pm \sqrt{256}$

Q.50. $\left[200 - \left(\sqrt{784} + 8^2\right)\right] ? \sqrt{11664}$

TEST- 3
QUANTITATIVE APTITUDE

Q.1-20. Find the value of question mark (?) in the following questions ?

Q.1. $3.6\times(1.2)^2\div(1.8)^2=?$
(1) 1.2 (2) 0.8 (3) 0.6 (4) 2.4 (5) None of these

Q.2. $\frac{5}{7}\times\frac{3}{4}\times ?=6870$
(1) 11836 (2) 12804 (3) 12824 (4) 12156 (5) None of these

Q.3. $\frac{5.4\times1.6}{0.018}=?$
(1) 520 (2) 460 (3) 450 (4) 480 (5) None of these

Q.4. 248.67+136.85+1328.24=?
(1) 1713.76 (2) 1813.76 (3) 1497.16
(4) 1531.86 (5) None of these

Q.5. (1386+1064) ÷ (787+438)=?
(1) 1 (2) 2 (3) 3 (4) 4 (5) None of these

Q.6. $(29)^6\times(29)^4\div(29)^8=?$
(1) 29^3 (2) 841 (3) 29 (4) $\frac{1}{29}$ (5) None of these

Q.7. $\sqrt{1024}\times\sqrt{?}=768$
(1) 28 (2) 576 (3) 676 (4) 24 (5) None of these

Q.8. $16384-\sqrt{4096}+(8)^2=?$
(1) 320 (2) 324 (3) 256 (4) 300 (5) None of these

Q.9. $\frac{97+74-21}{(1430\div11)-5}=?$
(1) $\frac{4}{3}$ (2) $\frac{3}{2}$ (3) $\frac{6}{5}$ (4) $\frac{5}{4}$ (5) None of these

Q.10. $\sqrt[3]{29791}=?$
(1) 33 (2) 31 (3) 27 (4) 37 (5) None of these

Q.11. 79842+1386+41321−24876=?
(1) 97673 (2) 98173 (3) 95673
(4) 94373 (5) None of these

Q.12. 64% of 750 + $(?)^2$ = 649
(1) 14 (2) 12 (3) 11 (4) 13 (5) None of these

Q.13. 8421+7268−1487=?×263
(1) 52 (2) 58 (3) 54 (4) 45 (5) None of these

Q.14. ?÷67×33=990
(1) 2010 (2) 2020 (3) 2050 (4) 1990 (5) None of these

Q.15. $1995\div7\times\sqrt{?}=3705$
(1) 144 (2) 169 (3) 324 (4) 18 (5) None of these

Q.16. $\sqrt{4225}+\sqrt{3136}=?$
(1) 121 (2) 144 (3) 125
(4) 111 (5) None of these

Q.17. 230% of 160÷23=?
(1) 23 (2) 24 (3) 16
(4) 8 (5) None of these

Q.18. $171\div\frac{72}{7}\times\frac{8}{21}=?$
(1) $\frac{19}{3}$ (2) $\frac{19}{4}$ (3) $\frac{21}{4}$
(4) $\frac{9}{19}$ (5) None of these

Q.19. $\frac{(8\times?)^2}{64}=\sqrt{81}$
(1) 81 (2) 9 (3) 3
(4) 27 (5) None of these

Q.20. 12781+2146+4581+8624=?
(1) 28132 (2) 28412 (3) 27946
(4) 29132 (5) None of these

Q.21-25. What will come in place of question mark(?) in the following number series. ?

Q.21. 1462 1486 1510 ? 1558 1582
(1) 1525 (2) 1520 (3) 1534 (4) 1524 (5) 1530

Q.22. 7 8 15 46 ? 916
(1) 185 (2) 182 (3) 181 (4) 184 (5) 183

Q.23. 3 3 6 36 ? 103680
(1) 676 (2) 862 (3) 864 (4) 876 (5) 756

Q.24. 19 39 79 159 ? 639
(1) 321 (2) 319 (3) 280 (4) 320 (5) 360

Q.25. 5 9 25 61 125 ?
(1) 175 (2) 150 (3) 250 (4) 225 (5) 200

Q.26. In how many different ways can the letters of the word 'DESIRE' be arranged ?
(1) 120 (2) 720 (3) 360
(4) 540 (5) None of these

Q.27. Girija invested a certain amount at the rate of 12 p.c.p.a. for 6 years to obtain an amount of Rs. 34,400. How much amount did Girija obtain as simple interest ?
(1) Rs.14,400 (2) Rs.12,400 (3) Rs. 15,400
(4) Data inadequate. (5) None of these

Q.28. If an amount of Rs. 18785. is divided equally among 55 people, how much approximate amount will each person get ?
(1) Rs.300 (2) Rs.320 (3) Rs.360
(4) Rs.340 (5) Rs. 380

Q.29. The difference between 52% of a number and 34% of the same number is 135. What is 76% of that number ?
(1) 525 (2) 600 (3) 550
(4) 570 (5) None of these

Q.30. A and B started a business by investing Rs. 25000 and Rs. 20000 respectively. B left the business after 7 months and C joined the business with a sum of Rs. 30000. The profit earned at the end of the year is Rs. 76,700. What is B's share of profit ?

(1) Rs.18,200 (2) Rs.20,200 (3) Rs.21,400
(4) Rs. 22,300 (5) None of these

Q.31. The ratio of the present ages of Veer and Zaara is 7 : 9 respectively. Four years hence the ratio of their ages will be 15 : 19. What is Zaara's present age ?

(1) 76 years (2) 56 years (3) 72 years
(4) 60 years (5) None of these

Q.32. The product of two consecutive even numbers is 11448. What is the smaller number ?

(1) 108 (2) 106 (3) 104
(4) 112 (5) None of these

Q.33. If $(99)^2$ is added to the square of a number, the answer so obtained is 20002. What is the number ?

(1) 100 (2) 104 (3) 102
(4) 101 (5) None of these

Q.34. In an examination, it is required to get 352 of the aggregate marks to pass. A student gets 264 marks and is declared failed by 10% marks. What is the maximum aggregate marks a student can get ?

(1) 825 (2) 850 (3) 890
(4) 875 (5) None of these

Q.35. The ratio between the male and female existing employees in an organisation is 9 : 7. The ratio between the male and female in a new recruitment of 360 employees is 4 : 5. The new ratio between male and female employees after recruitment becomes 61 : 55. Find the difference between the male and female employees before recruitment ?

(1) 80 (2) 120 (3) 100
(4) 160 (5) None of these

Q.36. The sum of the average of three consecutive even numbers and three consecutive odd numbers is 31. If the largest odd number is 21. What is the smallest even number ?

(1) 8 (2) 12 (3) 6
(4) 14 (5) None of these

Q.37. A train running at a speed of 75 km./hr. crosses a platform double its length in 36 seconds. What is the length of the platform ?

(1) 500 m. (2) 250 m. (3) 750 m.
(4) 400 m. (5) None of these

Q.38. Six-eleventh of the first number is equal to 54% of the second number. What is the respective ratio between the first and the second numbers ?

(1) 9 : 10 (2) 99 : 100 (3) 19 : 100
(4) 99 : 101 (5) None of these

Q.39. Shweta purchased an article on the discounted price and sold it Rs. 1428 and get 20% profit, what was the original price ?

(1) Rs.1700 (2) Rs.1600 (3) Rs.1800
(4) Rs.1600 (5) None of these

Q.40. What is the average of the following numbers ?

42 75 89 63 59 72 48

(1) 56 (2) 58 (3) 66
(4) 64 (5) None of these

Q.41. 12 men can complete a work in 16 days and 16 women can complete the same work in 12 days. In how many days will 4 men and 8 women complete that work ?

(1) 16 (2) 12 (3) 18
(4) 10 (5) None of these

Q.42. 53% of a number is 2067. What is 81% of that number ?

(1) 2819 (2) 3059 (3) 3159
(4) 2799 (5) None of these

Q.43. The cost of 4 Books and 7 Registers is Rs. 1250. What is the cost of 12 books and 21 Registers?

(1) Rs.3250 (2) Rs.3750 (3) Rs. 3700
(4) Can't be determined (5) None of these

Q.44. Neelima invests Rs. 1568 in mutual fund, which is 28% of his monthly income. What is her annual salary ?

(1) Rs.67000 (2) Rs.67200 (3) Rs.5600
(4) Rs.68200 (5) None of these

Q.45. A car covers a distance of 686 kms in 14 hours. What is the speed of the car ?

(1) 49 km./hr. (2) 53 km./hr. (3) 47 km./hr.
(4) 43 km./hr. (5) None of these

Q.46-50. Study the following table carefully and answer the questions given below-

Marks obtained by Five students in five subjects in an examination.

(Total marks in each of the five subjects is 100)

Subject / Student	Science	History	Maths	English	Computer
Amit	49	64	77	69	56
Bhavna	64	58	71	76	63
Chirag	81	76	61	72	84
Deepak	76	51	63	82	71
Ehsan	71	69	78	66	83

Q.46. The total marks obtained by Chirag in History and Computer together was **approximately** what percent of marks obtained by Ehsan in Mathematics and Science ?

(1) 101 (2) 107 (3) 115
(4) 95 (5) 120

Q.47. Who amongst them secured highest marks in Computer, Science and History ?

(1) Amit (2) Bhavna (3) Chirag
(4) Deepak (5) Ehsan

Q.48. If the minimum percentage is 70 in each subject to be declared pass in the examination, how many students failed in the examination ?

(1) 1 (2) 2 (3) All
(4) 3 (5) 4

Q.49. Who amongst them secured highest percentage of marks ?

(1) Chirag (2) Ehsan (3) Amit
(4) Bhavna (5) None of these

Q.50. Marks obtained by Deepak in Science and English was approximately what percent of marks obtained by Amit in Mathematics and Computer ?

(1) 105 (2) 90 (3) 100
(4) 110 (5) 120

TEST-4
QUANTITATIVE APTITUDE

Q.1-25. What will come in place of question mark (?) in the following questions?

Q.1. 21% of 1400 – ?% of 750 = 159
(1) 28 (2) 30 (3) 24 (4) 18 (5) None of these

Q.2. $(6)^3 \times (?)^5 \div 225 = 3000$
(1) 5 (2) 8 (3) 6 (4) 3 (5) None of these

Q.3. $(11800 - ?) \div 79 \times 4 = 512$
(1) 1348 (2) 1986 (3) 1688 (4) 1992 (5) None of these

Q.4. $\frac{4}{7} \times ? \times 2646 = 1008$
(1) $\frac{1}{3}$ (2) $\frac{1}{2}$ (3) $\frac{2}{3}$ (4) $\frac{3}{4}$ (5) None of these

Q.5. $\frac{54}{\sqrt{0.81}} \times \frac{1}{18} = ?$
(1) $2\frac{1}{3}$ (2) $\frac{1}{3}$ (3) $\frac{1}{2}$ (4) 1 (5) None of these

Q.6. $\dfrac{\frac{1}{4} \div \frac{1}{4} \text{ of } \frac{1}{4}}{\frac{1}{4} \text{ of } \frac{1}{4} \div \frac{1}{4}} = ?$
(1) 4 (2) 16 (3) 14 (4) 24 (5) None of these

Q.7. $\frac{14}{25}$ of $\frac{6}{15}$ of $\frac{5}{7}$ of 1350 = ?
(1) 204 (2) 216 (3) 210 (4) 212 (5) None of these

Q.8. (17891 + 16239 – 26352) × 12 = ?
(1) 93636 (2) 96336 (3) 93333 (4) 93366 (5) None of these

Q.9. $\sqrt{12544} \div 64 \times 25 = ?$
(1) 43.75 (2) 45.25 (3) 42.15 (4) 40.5 (5) None of these

Q.10. $8305\left(\frac{1}{7} \times \frac{1}{5} \times ?\right) = 199320$
(1) 840 (2) 820 (3) 810 (4) 800 (5) None of these

Q.11. $20\frac{4}{3} + 21\frac{1}{4} - 6\frac{1}{12} = ?$
(1) $35\frac{2}{3}$ (2) $32\frac{1}{3}$ (3) $36\frac{1}{2}$ (4) $34\frac{1}{2}$ (5) None of these

Q.12. $\sqrt{8^2} + (5)^3 + (2)^6 = ?$
(1) 205 (2) 200 (3) 199 (4) 197 (5) None of these

Q.13. 16.87 + 85.18 – ? = 56.56
(1) 49.59 (2) 45.49 (3) 43.59 (4) 49.35 (5) None of these

Q.14. $(45)^2 + (?)^2 = (47)^2 + 257$
(1) 23 (2) 21 (3) 441 (4) 529 (5) None of these

Q.15. ? of 186 + 565 = 2100 – 202
(1) $5\frac{2}{3}$ (2) $8\frac{1}{3}$ (3) $7\frac{1}{6}$ (4) $6\frac{1}{2}$ (5) None of these

Q.16. 35568 ÷ 12% of 650 = ?
(1) 465 (2) 454 (3) 468 (4) 486 (5) None of these

Q.17. (45 × 4.5 × 3.2) + 343 = ?
(1) 919 (2) 991 (3) 911 (4) 990 (5) None of these

Q.18. $\frac{3.5 \times 1.35 \times 4.5}{0.5} = ?$
(1) 35.135 (2) 20.525 (3) 40.415 (4) 43.125 (5) None of these

Q.19. $7\frac{11}{12} \times 6\frac{7}{19} \div 7\frac{1}{3} \times \frac{8}{11} = ?$
(1) 9 (2) 11 (3) 2 (4) 5 (5) None of these

Q.20. $\frac{2}{3}$ of $1\frac{2}{5}$ of 75% of 540 = ?
(1) 378 (2) 756 (3) 252 (4) 332 (5) None of these

Q.21. 16×12 – 672 ÷ 21 = ? – 211
(1) 381 (2) 347 (3) 372 (4) 385 (5) None of these

Q.22. 36% of 420 – 56% of 350 = ? – 94
(1) 48.2 (2) 49.2 (3) – 138.8 (4) – 158.8 (5) None of these

Q.23. $\left(\sqrt{5} - 2\right)^2 = ? - \sqrt{80}$
(1) $4\sqrt{5} + 4$ (2) $4\sqrt{5}$ (3) $9 - 4\sqrt{5}$ (4) 9 (5) None of these

Q.24. $98 \div 14 \times 49 - 294 = (?)^2$
(1) – 14 (2) $\sqrt{7}$ (3) – 7 (4) 196 (5) 49

Q.25. 454.58 – 376.89 + 121.45 – 95.42 = ?
(1) 102.22 (2) 103.72 (3) 91.72 (4) 92.32 (5) None of these

Q.26. There are 16 dozen candles in a box. If there are 39 such boxes, how many candles are there in all the boxes together?
(1) 7080 (2) 6650 (3) 3610 (4) 7488 (5) None of these

Q.27. Mohan invests an amount of Rs. 9560/- @ 4 p.c.p.a. for 2 years. What **approximate** amount will he obtain at the end of two years?
(1) Rs. 10,340/- (2) Rs. 12,820/- (3) Rs. 11,430/- (4) Rs. 9,820/- (5) Rs. 10,440/-

Q.28. The population of a town is 198000. It decreases by 8% in the first year and increases by 5% in the second year. What is the population of the town at the end of 2 years?
(1) 192168 (2) 196218 (3) 198612 (4) 196128 (5) None of these

Q.29. 21 men can complete a piece of work in $4\frac{2}{7}$ days. In how many days can 18 men complete the same piece of work?
(1) 6 days (2) 5 days (3) 4 days (4) 2 days (5) None of these

Q.30. The cost of 6 gel pens and 16 ball pens is Rs. 92/-. What will be the cost of 27 gel pens and 72 ball pens ?
(1) Rs. 440/- (2) Rs. 414/- (3) Rs. 430/- (4) Rs. 418/- (5) None of these

Q.31. Jayant scored 33 marks in English, 38 marks in Mathematics, 36 marks in Sociology, 28 marks in Hindi and 34 marks in Economics. The maximum marks a students can score in each subject is 100. How much percentage did Jayant get in this exam?
(1) 30 (2) 34.2 (3) 33.8 (4) 32 (5) None of these

Q.32. The sum of five consecutive odd numbers is 585. What is the sum of second largest number and twice the smallest number?
(1) 335 (2) 332 (3) 328 (4) 338 (5) None of these

Q.33. If the numerator of a fraction is increased by 200% and the denominater is increased by 400%, the resultant fraction is $\frac{9}{20}$. What is the original fraction?
(1) $\frac{3}{7}$ (2) $\frac{4}{5}$ (3) $\frac{4}{7}$ (4) $\frac{3}{4}$ (5) None of these

Q.34. The ratio between the number of girls and boys is 7.13 respectively. What is the percentage of girls in this class?
(1) 35 (2) 55 (3) 45
(4) Cannot be determined (5) None of these

Q.35. Find the average of following set of scores
32, 73, 39, 29, 88, 22, 33, 64
(1) 48.3 (2) 43.8 (3) 45.7 (4) 47.5 (5) None of these

Q.36. What value will come in place of both the question marks (?) in the question given below?

$$\frac{(?)^{12}}{128} = \frac{32}{(?)^{18}}$$

(1) 16 (2) 18 (3) 17 (4) 19 (5) None of these

Q.37. Meena purchased 16 kgs. of wheat at the rate of Rs. 26/- per kg. and 12 kgs. of rice at the rate of Rs. 26/- per kg. What is the total amount that she paid to the shopkeeper?
(1) Rs. 716/- (2) Rs. 728/- (3) Rs. 745/-
(4) Rs. 760/- (5) None of these

Q.38. The average of five numbers is 61.4. The average of first and second number is 40.5 and that of fourth and fifth number is 72. What is the third number?
(1) 85 (2) 83 (3) 87 (4) 81 (5) None of these

Q.39. Anil sets an alarm in two different clocks. The first alarm rings after every 3 hours and the second alarm rings after every 2 hours and 30 minutes. If both the alarms rang together at 2 p.m., what will be the time when they will next ring together?
(1) 2 a.m. (2) 5.30 a.m. (3) 5 a.m.
(4) 3 a.m. (5) Cannot be determined

Q.40. In how many different ways can the letters of the word **'NUMBER'** be arranged?
(1) 360 (2) 5040 (3) 720 (4) 780 (5) None of these

Q.41. The ratio of present ages of Rahul and Rajan is 5:7. After 6 years, the ratio of their ages will be 3:4. What was the Rahul's age 9 years ago?
(1) 19 years (2) 33 years (3) 21 years (4) 30 years (5) None of these

Q.42. A canteen uses 260 liters of water in 4 days. How many liters of water will it use in 5 days?
(1) 220 (2) 200 (3) 230 (4) 240 (5) None of these

Q.43-45. What **approximate** value will come in place of question mark (?) in the questions given below?

Q.43. $\sqrt{9028} = ?$
(1) 45 (2) 125 (3) 145 (4) 55 (5) 95

Q.44. 8263 ÷ 14 = ?
(1) 590 (2) 570 (3) 550 (4) 500 (5) 520

Q.45. 69.899 × 4.002 × 15.989 = ?
(1) 4200 (2) 4400 (3) 4800 (4) 4500 (5) 4600

Q.46-50. What value will come in place of question mark (?) in the number series given below?

Q.46. 347, 336, 323, 308, 291, ?
(1) 274 (2) 278 (3) 272 (4) 276 (5) None of these

Q.47. 17, 22, 32, 47, 67, ?
(1) 92 (2) 90 (3) 94 (4) 96 (5) None of these

Q.48. 997, 961, 936, 920, 911, ?
(1) 907 (2) 910 (3) 905 (4) 903 (5) None of these

Q.49. 17, 16.5, 15.5, 14, 12, ?
(1) 9 (2) 10.5 (3) 10 (4) 9.5 (5) None of these

Q.50. 8, 12, 18, 27, 40.5, ?
(1) 603.5 (2) 607.5 (3) 608 (4) 602.5 (5) None of these

TEST-5
QUANTITATIVE APTITUDE

Q.1-25. What value will come in place of question mark (?) in the questions given below?

Q.1. $2\frac{1}{6} + 2\frac{1}{66} + 1\frac{1}{3} = ?$
(1) $4\frac{15}{34}$ (2) $5\frac{17}{33}$ (3) $6\frac{17}{35}$ (4) $4\frac{1}{3}$ (5) None of these

Q.2. 910 ÷ 26 + (785 – 423 + ?) = 440
(1) 37 (2) 33 (3) 38 (4) 43 (5) None of these

Q.3. 7.54 ÷ 1.3 – 19.24 + 18.6 = ?
(1) 4.26 (2) 5.16 (3) 6.18 (4) 4.01 (5) None of these

Q.4. 570 ÷ 38 × 378 ÷ 42 = ?
(1) 235 (2) 236 (3) 138 (4) 132 (5) None of these

Q.5. 5412 + 48356 – 736 = 1325.8 × ?
(1) 40 (2) 42 (3) 38 (4) 32 (5) None of these

Q.6. 45% of 848 – 55% of 422 = ?
(1) 185.1 (2) 158.1 (3) 149.5 (4) 148.2 (5) None of these

Q.7. 336.66 + 663.33 + 636.63 = ?
(1) 1663.26 (2) 1646.24 (3) 1636.62 (4) 1633.16 (5) None of these

Q.8. 8.4 × 1.5 × 11.7 – 26.26 = ?
(1) 112.16 (2) 121.61 (3) 122.18 (4) 123.24 (5) None of these

Q.9. 598 ÷ ? = 36.8% of 650
(1) 2.5 (2) 1.5 (3) 1.8 (4) 3.2 (5) None of these

Q.10. (255 × 2000) ÷ ? × 25 = 2550
(1) 500 (2) 2500 (3) 250 (4) 2000 (5) None of these

Q.11. $? \div \sqrt{38416} = 14 \times 6 + 16$
(1) 19250 (2) 19600 (3) 19720 (4) 19530 (5) None of these

Q.12. $\frac{413}{576} \times \frac{32}{59} \times ? = 1\frac{1}{4}$
(1) $3\frac{1}{7}$ (2) $3\frac{3}{14}$ (3) $3\frac{2}{7}$ (4) $3\frac{1}{5}$ (5) None of these

Q.13. 42.065 + 4.08 + 0.0014 = ?
(1) 48.1624 (2) 45.1514 (3) 44.2516 (4) 46.1464 (5) None of these

Q.14. $4585 \times \frac{1}{16} \times \frac{2}{?} \times \frac{4}{5} = 65.5$
(1) 7 (2) 14 (3) 4 (4) 8 (5) None of these

Q.15. $(4)^{0.5} \times (0.5)^4 = ?$
(1) 1 (2) 4 (3) $\frac{1}{8}$ (4) $\frac{1}{32}$ (5) None of these

Q.16. $4\frac{1}{8} + 3\frac{2}{3} + 2\frac{3}{4} = ?$
(1) $19\frac{1}{24}$ (2) $19\frac{11}{24}$ (3) $19\frac{11}{16}$ (4) $19\frac{13}{16}$ (5) None of these

Q.17. $(84)^2 - (67)^2 + \sqrt{441} = ?$
(1) 2855 (2) 2585 (3) 2885 (4) 2580 (5) None of these

Q.18. $(19)^2 - (?)^3 - \sqrt{676} + 16 = (18)^2$

(1) 3 (2) 2 (3) 4 (4) 5 (5) None of these

Q.19. 200.04 + ? = 236.69 + 356.74

(1) 339.93 (2) 399.39 (3) 399.93 (4) 393.39 (5) None of these

Q.20. 3973.2 ÷ (57.75 × 0.8) = ?

(1) 73 (2) 86 (3) 55 (4) 69 (5) None of these

Q.21. $7\frac{2}{7}$ of ? + 452 = 2000 – 171

(1) 198 (2) 189 (3) 188 (4) 192 (5) None of these

Q.22. $(75)^2 - 75 = ?$

(1) 5500 (2) 5580 (3) 5560 (4) 5520 (5) None of these

Q.23. $\frac{16 \times 3 + 14 \times 3}{501 \times 2 - 912} = ?$

(1) 101 (2) 0 (3) 1 (4) 11 (5) None of these

Q.24. $\sqrt{?} \div 6 \times 4 - 3 = \sqrt{25}$

(1) 144 (2) 12 (3) $\sqrt{12}$ (4) 24 (5) None of these

Q.25. $\frac{43}{?} \times \frac{32}{7} \times \frac{63}{24} = 4$

(1) 129 (2) 130 (3) 132 (4) 135 (5) None of these

Q.26. The sum of ages of A, B and C is 123 years. 5 years ago, the ratio of their ages was 5:9:13. What is A's present age?

(1) 25 years (2) 30 years (3) 15 years (4) 20 years (5) None of these

Q.27. A train moving at the speed of 36 km/hr. crosses a pole in 10 seconds. In what time it will cross a 200 metre long platform?

(1) 15 sec. (2) 25 sec (3) 30 sec.
(4) Cannot be determined (5) None of these

Q.28. Each bag can contain 127 kgs. of wheat. How many bags will be required to contain 3556 kgs. of wheat?

(1) 28 (2) 23 (3) 24 (4) 26 (5) None of these

Q.29. The average of four numbers is 60. The first number is $\frac{1}{3}$ of sum of other three numbers. What is the first number?

(1) 15 (2) 45 (3) 48 (4) 60 (5) None of these

Q.30. Rahul got 42 marks in Hindi, 54 marks in Science, 44 marks in Maths, 90 marks in Sociology and 76 marks in English. The maximum marks in each subject is 100. What is the total percentage marks obtained by him?

(1) 60.4 (2) 61.2 (3) 62.4 (4) 62.6 (5) None of these

Q.31. The simple interest accrued on an amount of ₹ 40,000/- for 2 years is $\frac{1}{8}$ of the principal. What is the rate of simple interest per annum?

(1) 5 (2) 4.5 (3) 6.25 (4) 7.25 (5) None of these

Q.32. What value will be obtained on subtracting cube of 7 from square of 39?

(1) 1180 (2) 1176 (3) 1185 (4) 1170 (5) None of these

Q.33. 6 women can complete a work in 46 hours. In how many hours will 23 women complete that work?

(1) 18 (2) 16 (3) 12 (4) 24 (5) None of these

Q.34. Akhilesh's monthly income is three-fifth of Ritesh's monthly income. Ritesh's monthly income is ₹ 32,000/-. What is Akhilesh's annual income?

(1) ₹ 2.016 lakh (2) ₹ 3.4014 lakh (3) ₹ 2.304 lakh (4) ₹ 3.2014 lakh (5) None of these

Q.35. The sum of five consecutive even numbers is 260. What is the sum of the smallest number and half of the square of the largest number?

(1) 1618 (2) 1620 (3) 1616 (4) 1612 (5) None of these

Q.36. Out of the fractions $\frac{3}{11}, \frac{2}{9}, \frac{5}{13}, \frac{7}{17}$ and $\frac{8}{19}$, what is the sum of the largest fraction and smallest fraction?

(1) $\frac{97}{153}$ (2) $\frac{110}{171}$ (3) $\frac{145}{209}$ (4) $\frac{49}{99}$ (5) None of these

Q.37. Raman purchased an article for ₹ 4,500/- and sold it at 25% loss. From that money he purchased another article and sold it at 20% profit. What is his total profit/loss?

(1) ₹ 450/- loss (2) ₹ 450/- profit (3) ₹ 420/- profit (4) No profit no loss (5) None of these

Q.38. The side of a square is 18 cm. which is 7.5 cm. more than radius of a circle. What is the area of the circle?

(1) 348.2 cm^2. (2) 346.5 cm^2. (3) 342.4 cm^2. (4) 340.8 cm^2. (5) None of these

Q.39. What is fifty-five percent of three-fifth of 1200?

(1) 390 (2) 392 (3) 394 (4) 385 (5) None of these

Q.40. What value will come in place of both question marks (?) in the following question?

$$\frac{(?)^{\frac{4}{5}}}{54} = \frac{24}{(?)^{\frac{6}{5}}}$$

(1) 18 (2) 36 (3) 12 (4) – 54 (5) None of these

Q.41-43. What value will come in place of question mark (?) in the number series given below?

Q.41. 37, 46, 73, 118, 181, ?

(1) 260 (2) 258 (3) 262 (4) 264 (5) None of these

Q.42. 43, 459, 667, 771, 823, ?

(1) 849 (2) 850 (3) 852 (4) 853 (5) None of these

Q.43. 32, 48, 72, 108, 162, ?

(1) 242 (2) 244 (3) 240 (4) 243 (5) None of these

Q.44-45. What **approximate** value will come in place of question mark (?) in the questions given below?

Q.44. $5670 \div 380 \times (21)^2 = ?$

(1) 6800 (2) 6700 (3) 6500 (4) 6400 (5) 6600

Q.45. $4123 \div (2.3)^2 - 446 = ?$

(1) 400 (2) 440 (3) 300 (4) 330 (5) 380

Q.46. Sunil's age is $\frac{1}{6}$ of Neelam's age. After 10 years, Neelam's age will be twice the Priya's age. If 2 years ago, Priya was 8 years old, what will be Sunil's age after 5 years?

(1) 5 years (2) 8 years (3) 12 years (4) 10 years (5) None of these

Q.47. The cost of 6 tables and 8 chairs was ₹ 7212/-. What will be the cost of 15 tables and 20 chairs?

(1) ₹ 19020/- (2) ₹ 18030/- (3) ₹ 16080/- (4) ₹ 12040/- (5) None of these

Q.48. 16% of a number is 216. What is 37% of that number?

(1) 498.5 (2) 490.2 (3) 496.8 (4) 494.6 (5) None of these

Q.49. Find the average of following set of scores.

834, 631, 726, 152, 334, 263

(1) 490 (2) 348 (3) 520 (4) 450 (5) None of these

Q.50. What will be compound interest on an amount of ₹ 5000/- at the rate of 8% p.a. at the end of 2 years?

(1) ₹ 832/- (2) ₹ 842/- (3) ₹ 823/- (4) ₹ 840/- (5) None of these

TEST-6

QUANTITATIVE APTITUDE

Q.1-15. What should come in place of the question mark (?) in the following questions ?

Q.1. $5 \times ? = 9584 \div 4$
(1) 497.2 (2) 11980 (3) 7667.2 (4) 479.2 (5) None of these

Q.2. $1255.5 \div (18 \times 15.5) = ?$
(1) 5.5 (2) 6.5 (3) 2.5 (4) 3.5 (5) None of these

Q.3. 62% of 350 – ?% of 140 = 154
(1) 55 (2) 25 (3) 47 (4) 38 (5) None of these

Q.4. $14.5 \times 17.3 \times 10.8 = ?$
(1) 2709.18 (2) 2079.08 (3) 2907.28 (4) 2790.80 (5) None of these

Q.5. $333.33 + 33.33 + 3.3 = ?$
(1) 369.69 (2) 369.96 (3) 396.96 (4) 396.69 (5) None of these

Q.6. $(64)^3 \times (8)^3 \div (512)^2 = (8)^?$
(1) 8 (2) 4 (3) 14 (4) 10 (5) None of these

Q.7. $\frac{5}{6} \div \frac{8}{9} \times \frac{3}{5} = ?$
(1) $\frac{5}{9}$ (2) $\frac{7}{16}$ (3) $\frac{9}{16}$ (4) $\frac{7}{9}$ (5) None of these

Q.8. $144 \times 83 - 9090 = ?$
(1) 2862 (2) 2682 (3) 2286 (4) 2268 (5) None of these

Q.9. 19.9% of 411 = ?
(1) 83.897 (2) 80.879 (3) 84.987 (4) 81.789 (5) None of these

Q.10. $5555 \div 55 \div 5 = ?$
(1) 505 (2) 550 (3) 22.2 (4) 20.2 (5) None of these

Q.11. $8052 - 9883 + 6048 = ? \times 25$
(1) 168.68 (2) 186.68 (3) 186.86 (4) 168.86 (5) None of these

Q.12. $1\frac{2}{5} - 2\frac{5}{7} + 3\frac{7}{10} = ?$
(1) $5\frac{17}{70}$ (2) $4\frac{13}{70}$ (3) $2\frac{27}{70}$ (4) $3\frac{11}{70}$ (5) None of these

Q.13. $8536 + 5824 = ? \times 40$
(1) 336 (2) 359 (3) 363 (4) 395 (5) None of these

Q.14. 16% of 885 + ? = 325
(1) 178.6 (2) 195.8 (3) 183.4 (4) 172.2 (5) None of these

Q.15. $\sqrt{?} + 15 = \sqrt{2304}$
(1) $\sqrt{1089}$ (2) $(33)^2$ (3) $\sqrt{33}$ (4) 33 (5) None of these

Q.16-20. What approximate value should come in place of the question mark (?) in the following questions?

Q.16. $(10.999)^3 = ?$
(1) 1680 (2) 900 (3) 1000 (4) 1550 (5) 1330

Q.17. $58.0003 \div 86.999 = ?$
(1) 0.05 (2) 0.2 (3) 1 (4) 0.6 (5) 2

Q.18. 14.9 % of 880 + 27.8 % of 480 = ?
(1) 320 (2) 265 (3) 280 (4) 415 (5) 305

Q.19. $40440 \div 444 \div 4 = ?$
(1) 41 (2) 12 (3) 23 (4) 32 (5) 17

Q.20. $45.003 \times 44.998 + 10.010 = ?$
(1) 1900 (2) 2035 (3) 2300 (4) 1805 (5) 2000

Q.21-25. What should come in place of the question mark (?) in the following number series ?

Q.21. 3 ? 6 18 72 360 2160
(1) 4.5 (2) 3 (3) 4 (4) 5.5 (5) None of these

Q.22. 1520 760 380 190 95 47.5 ?
(1) 23.75 (2) 22.25 (3) 24.75 (4) 21.25 (5) None of these

Q.23. 4 7 11 18 29 ? 76
(1) 64 (2) 38 (3) 52 (4) 47 (5) None of these

Q.24. 343 216 ? 64 27 8 1
(1) 144 (2) 100 (3) 125 (4) 136 (5) None of these

Q.25. 2 13 67 ? 817 1639 1645
(1) 271 (2) 205 (3) 262 (4) 218 (5) None of these

Q.26. Find the average of the following set of scores :
539, 741, 326, 461, 654, 952, 128, 543
(1) 487 (2) 523 (3) 608 (4) 572 (5) None of these

Q.27. The area of a square is twice the area of a rectangle. If the area of the square is 324 sq. cms. and the length of the rectangle is 13.5 cms., what is the difference between the breadth of the rectangle and the side of the square ?
(1) 8 cms. (2) 10 cms. (3) 12 cms. (4) 6 cms. (5) None of these

Q.28. A truck covers a certain distance in 14 hours at the speed of 62 kms./hr. What is the average speed of a car which travels a distance of 280 kms. more than the truck in the same time ?
(1) 89 kms /hr. (2) 77 kms /hr (3) 82 kms./hr. (4) 76 kms./hr. (5) None of these

Q.29. The average of four consecutive even numbers A, B, C and D respectively is 25. What is the product of A & C ?
(1) 528 (2) 616 (3) 624 (4) 572 (5) None of these

Q.30. Subodh got 72 marks in Hindi, 68 marks in Science, 62 marks in Sanskrit, 74 marks in Maths and 64 marks in English. The maximum marks of each subject are 80. How much overall percentage of marks did Subodh get ?
(1) 85 (2) 82 (3) 75 (4) 78 (5) None of these

Q.31. Amla's monthly income is four-fifth of Meera's monthly income. Meera's annual income is ₹ 4,29,600/-. What is Amla's annual income ? (In some cases monthly income and in some cases annual income is used.)
(1) ₹ 3,68,240/- (2) ₹ 3,43,680/- (3) ₹ 3,48,250/- (4) ₹ 3,66,080/- (5) None of these

Q.32. The sum of 45% of a number and 20% of the same number is 4056. What is 85% of that number?
(1) 5043 (2) 5430 (3) 5034 (4) 5340 (5) None of these

Q.33. 4 women alone can complete a piece of work in 16 days, whereas 8 children alone take 12 days to complete the same piece of work. How many days will 4 women and 6 children together take to complete the piece of work ?
(1) 7 (2) 8 (3) 6 (4) 9 (5) None of these

Q.34. At present Satish is four times Madhur's age. After eight years Satish will be 2.5 times Madhur's age then. "How many times will Satish's age be in another eight years time with respect to Madhur's age then ?
(1) 5 (2) 3 (3) 2 (4) 1.5
(5) None of these

Q.35. Vaishali walks 180 meters every day. How many kilometers will she walk in 4 weeks ?
(1) 5.04 (2) 8.92 (3) 6.18 (4) 7.37 (5) None of these

Q.36. $\frac{(?)^{18}}{72} = \frac{24}{(?)^{12}}$
(1) 8 (2) 14 (3) 6 (4) 12 (5) None of these

Q.37. The simple interest accrued in 8 years on a principal of ₹ 22,500/- is 128 percent of the principal. What is the rate of interest p. c. p. a.?
(1) 14 (2) 18 (3) 16
(4) Cannot be determined (5) None of these

Q.38. Vishwas sold an item for ₹ 7,200/- and incurred a loss of 20%. At what price should he have sold the item to have gained a profit of 20% ?

(1) ₹ 10,800/- (2) ₹ 8,950/- (3) ₹ 11,200/-
(4) Cannot be determined (5) None of these

Q.39. The average height of four boys was recorded as 170 cms. If the average of the heights of three boys out of the four was 172 cms., what was the height of the fourth boy ?

(1) 156 cms. (2) 168 cms. (3) 170 cms. (4) 162 cms. (5) None of these

Q.40. Out of the fractions $\frac{3}{5}, \frac{7}{9}, \frac{6}{7}, \frac{2}{3}$ and $\frac{4}{11}$ what is the sum of the largest and smallest fractions ?

(1) $1\frac{17}{77}$ (2) $1\frac{13}{65}$ (3) $1\frac{13}{77}$ (4) $1\frac{17}{65}$ (5) None of these

Q.41. What would be the area of a circle whose circumference is 22 cms. ?

(1) 34.25 sq.cms. (2) 38.5 sq.cms. (3) 37.5 sq.cms. (4) 36.75 sq.cms. (5) None of these

Q.42. In an examination it is required to get 65% of the aggregate marks to pass. A student gets 684 marks and is declared failed by 8% marks. What are the **maximum** aggregate marks a student can get ?

(1) 950 (2) 1200 (3) 1050
(4) Cannot be determined (5) None of these

Q.43. Miloni, Shikha and Varun start running around a circular stadium and complete one round in 8 seconds, 10 seconds and 14 seconds respectively. In how much time will they meet again at the starting point ?

(1) 3 minutes 12 seconds (2) 5 minutes 28 seconds (3) 2 minutes 45 seconds
(4) 4 minutes 40 seconds (5) None of these

Q.44. The compound interest accrued on an amount at the end of two years @ 15 p.c.p.a. is ₹ 2915.4. What is the amount ?

(1) ₹ 76,020/- (2) ₹ 9,040/- (3) ₹ 8,540/-
(4) ₹ 10,250/- (5) None of these

Q.45. A 360 meters long train crosses a pole in 80 seconds. What is the speed of the train ?

(1) 6.4m./s. (2) 3m./s. (3) 5.5 m./s.
(4) Cannot be determined (5) None of these

Q.46. A rectangular field has its length and breadth in the ratio of 5 : 4 respectively. A man riding a bicycle, completes one lap of this field along its perimeter at the speed of 9 km./hr. in 3 minutes and 36 seconds. What is the area of the field a bicycle rider to complete?

(1) 18000 sq.mts. (2) 16540 sq.mts. (3) 17500 sq.mts.
(4) Cannot be determined (5) None of these

Q.47. In how many different ways can the letters of the word **'SEQUENCE'** be arranged ?

(1) 64 (2) 13440 (3) 6720 (4) 20160 (5) None of these

Q.48. On teacher's day sweets were to be equally distributed amongst 400 children. But on that particular day 50 children remained absent hence each child got 1 sweet extra. How many sweets was each child originally supposed to get ?

(1) 8 (2) 10 (3) 9
(4) 7 (5) Cannot be determined

Q.49. The diameter of a circle is 3.5 cms. What is the circumference of the circle ?

(1) 9 cms. (2) 8 cms. (3) 14 cms.
(4) 12 cms. (5) None of these

Q.50. Pooja earned a profit of 40 percent on selling an article for ₹ 8,750/-. What was the cost price of the article ?

(1) ₹ 8,725/- (2) ₹ 7,080/- (3) ₹ 6,250/-
(4) ₹ 5,400/- (5) None of these

TEST-7
QUANTITATIVE APTITUDE

Q.1-25. What will come in place of question mark (?) in the following questions?

Q.1. $\frac{?+102.50}{?} = \left(\frac{21}{20}\right)^2$

(1) 950 (2) 1200 (3) 1000 (4) 1050 (5) None of these

Q.2. $35152 \times \frac{?}{26} \times \frac{?}{26} \times \frac{?}{26} = 31250$

(1) 35 (2) 30 (3) 24 (4) 28 (5) None of these

Q.3. $\left(6-\sqrt{?}\right) - \frac{2\left(6-\sqrt{?}\right)}{3^2-\left(\sqrt{?}\right)^2} = 3\left(6-\sqrt{?}\right)$

(1) 10 (2) 6 (3) 2 (4) 3 (5) None of these

Q.4. $\sqrt{48 \times 28 \times 14 \times 6} - 224 = ?$

(1) 116 (2) 111 (3) 112 (4) 118 (5) None of these

Q.5. $\frac{10 \times ?}{11}\left(\frac{121+110+100}{121}\right) = 16550$

(1) 6450 (2) 6855 (3) 6980 (4) 6655 (5) None of these

Q.6. $\left(\frac{22}{7} \times ? \times 11\right) \times \frac{7}{100} = 7.26$

(1) 6 (2) 5 (3) 3 (4) 7 (5) None of these

Q.7. $\frac{1261 \times ?}{8000} - \frac{3 \times ?}{20} = 152.50$

(1) 18000 (2) 22000 (3) 24000 (4) 20000 (5) None of these

Q.8. $11.42 \times 18.6 - 52.68 = ?$

(1) 169.327 (2) 158.265 (3) 159.625 (4) 159.732 (5) None of these

Q.9. $13.6 \times 13.6 + 3.5 \times 0.5 = ? + 11.42 \times 3.2$

(1) 148.170 (2) 150.166 (3) 149.165 (4) 160.166 (5) None of these

Q.10. $7685.32 + 456.34 + 7632.50 = ? + 232.6$

(1) 15541.56 (2) 15025.60 (3) 14886.25 (4) 16542.26 (5) None of these

Q.11. $12.4 \times 13.2 \times 13.3 = ?$

(1) 2764.565 (2) 2256.550 (3) 2176.944 (4) 2275.826 (5) None of these

Q.12. $3\frac{1}{4} + 5\frac{1}{2} - 3\frac{2}{3} = ? + 1\frac{1}{4}$

(1) $3\frac{16}{42}$ (2) $4\frac{5}{12}$ (3) $3\frac{3}{4}$ (4) $3\frac{5}{6}$ (5) None of these

Q.13. $3\frac{2}{5} \times 4\frac{1}{2} - 4\frac{2}{3} \times 2\frac{2}{4} = ? - \frac{3}{4}$

(1) $5\frac{23}{27}$ (2) $4\frac{23}{60}$ (3) $5\frac{13}{30}$ (4) $4\frac{19}{30}$ (5) None of these

Q.14. 8.8 × 3.2 × 4.5 – 7.2 × 3.2 = ?
(1) 107.58 (2) 109.50 (3) 112.45 (4) 103.68 (5) None of these

Q.15. 58% of 30102 – 32% of 17344 = ?
(1) 12409.18 (2) 11909.08 (3) 11989.28 (4) 14504.08 (5) None of these

Q.16. $\frac{(28)^2 \times (21)^2}{49}$ + 876 = ? + 542
(1) 7690 (2) 7450 (3) 7250 (4) 7390 (5) None of these

Q.17. 13.31 + 33.321 + 2231.104 – 241.11 = ?
(1) 2260.650 (2) 2135.350 (3) 2450.125 (4) 2036.625 (5) None of these

Q.18. $16^3 \times 18^2 - (20.16)^2$ = ?
(1) 134256.1844 (2) 135424.2545 (3) 130568.2854 (4) 133546.5744 (5) None of these

Q.19. $\frac{2}{5}$ of $\frac{3}{4}$ of $\frac{5}{36}$ of ? = 32.5
(1) 694 (2) 780 (3) 684 (4) 728 (5) None of these

Q.20. 2.4 + 5.6 × 5.8 – 16.28 = ?
(1) 18.4 (2) 17.8 (3) 18.6 (4) 19.2 (5) None of these

Q.21. 8.6 × ? = 125224.6
(1) 15628 (2) 14862 (3) 15561 (4) 14561 (5) None of these

Q.22. $2\frac{1}{4} - 13\frac{4}{5} + 22\frac{1}{4}$ = ?
(1) $10\frac{8}{9}$ (2) $10\frac{7}{10}$ (3) $10\frac{9}{10}$ (4) $10\frac{6}{10}$ (5) None of these

Q.23. 52% of 8540 + 15% of 7860 = ? + 2540
(1) 3079.80 (2) 3518.25 (3) 2968.62 (4) 3268.70 (5) None of these

Q.24. ? ÷ 46 × 4094 = 50285
(1) 590 (2) 615 (3) 565 (4) 585 (5) None of these

Q.25. 32650 + 63548 – 35426 = ? + 5432
(1) 55340 (2) 56390 (3) 56650 (4) 56420 (5) None of these

Q.26. What is the least number to be subtracted from 4500 to make it a perfect square?
(1) 17 (2) 15 (3) 11 (4) 13 (5) None of these

Q.27. Find the average of the following set of numbers :
865, 785, 532, 452, 650, 358
(1) 609 (2) 605 (3) 601 (4) 607 (5) None of these

Q.28. The difference between 71% of a number and 33% of the same number is 24852. What is 56% of that number?
(1) 37425 (2) 36624 (3) 36812 (4) 37224 (5) None of these

Q.29. What would be the compound interest obtained on an amount of Rs. 8850 at the rate of 12 p.c.p.a. after two years?
(1) Rs. 2625.44 (2) Rs. 2450.44 (3) Rs. 2384.24 (4) Rs. 2251.44 (5) None of these

Q.30. A car covers a certain distance in 5 hours at the speed of 73 kms./hr. What is the average speed of bus which travels a distance of 50 kms. less than the car in the same time?
(1) 61 km./hr. (2) 58 km./hr. (3) 65 km./hr. (4) 63 km./hr. (5) None of these

Q.31. What will come in place of question mark (?) in the following question?

$$\frac{(?)^{33}}{64} = \frac{512}{(?)^{17}}$$

(1) 3 (2) 5 (3) 4 (4) 2 (5) None of these

Q.32. In how many different ways can the letters of word 'LEARNER' be arranged?
(1) 10080 (2) 2520 (3) 1260 (4) 5040 (5) None of these

Q.33. Which is the smallest fraction among the following?
(1) $\frac{11}{13}$ (2) $\frac{17}{19}$ (3) $\frac{19}{24}$ (4) $\frac{21}{25}$ (5) $\frac{15}{19}$

Q.34. If an amount of Rs. 218520 is distributed equally among 45 persons, how much amount would each person get?
(1) 4726 (2) 4856 (3) 4680 (4) 4958 (5) None of these

Q.35. The population of a city increases by 20% every year. If the population of the city in 2001 was 4 lakh, what will its population be in 2004?
(1) 635420 (2) 685200 (3) 691200 (4) 675120 (5) None of these

Q.36. If the difference between the compound interest and the simple interest earned on a sum of money at the rate of 8% p.a. for two years is Rs. 32. What is the Principal?
(1) Rs. 4800 (2) Rs. 5000 (3) Rs. 4500 (4) Rs. 5200 (5) None of these

Q.37. If the numerator of a fraction is increased by 100% and denominator by 400%, the resultant fraction is $\frac{8}{15}$. What is the original fraction?
(1) $\frac{7}{15}$ (2) $\frac{3}{4}$ (3) $\frac{5}{3}$ (4) $\frac{4}{3}$ (5) None of these

Q.38. A, B and C invested some money in the ratio of 3:5:6 in a business. If the amount invested by B is Rs. 856560. What is the total amount invested in the business?
(1) Rs. 3493867 (2) Rs. 2423368 (3) Rs. 2685420 (4) Rs.2398368 (5) None of these

Q.39. 42% of the total number of students passed in a class test. How many students failed, if the total number of students in the class is 1450?
(1) 839 (2) 831 (3) 841 (4) 791 (5) None of these

Q.40. A shopkeeper sold a TV at 16% discount on print rate. If the customer paid Rs. 9828 for the TV and the printed price is 20% more than its cost price, what is the cost price of TV?
(1) Rs. 9875 (2) Rs. 9450 (3) Rs. 9750 (4) Rs. 9850 (5) None of these

Q.41. The body weight of six men is recorded as 69 kg., 87 kg., 96 kg., 85 kg., 48 kg. and 83 kg. What is the average body weight of all the six men?
(1) 81 kg. (2) 79 kg. (3) 82 kg. (4) 78 kg. (5) None of these

Q.42. Ram's monthly income is two-fifth of Shyam's monthly income. Ram's annual income is Rs. 3.6 lakh. What is Shyam's annual income?
(1) Rs. 8.5 lakh (2) Rs. 7.2 lakh (3) Rs. 6 lakh (4) Rs. 9 lakh (5) None of these

Q.43. Azad runs 345 metre everyday. In how many days will he cover 4.14 km.?
(1) 14 days (2) 12 days (3) 10 days (4) 16 days (5) None of these

Q.44. 15 men can complete a piece of work in 32 days. How many men can complete the work in 12 days?
(1) 40 (2) 42 (3) 38 (4) 32 (5) None of these

Q.45. How many bags are required for filling 1404 kg. of rice if each bag is filled with 117 kg. of rice?
(1) 14 (2) 13 (3) 16 (4) 12 (5) None of these

Q.46-50. What value will come in place of question mark (?) in the number series given below?

Q.46. 15 54 368 ? 15126
(1) 2540 (2) 2527 (3) 2740 (4) 2437 (5) None of these

Q.47. 87656 83962 ? 76574
(1) 80166 (2) 81265 (3) 76874 (4) 80268 (5) None of these

Q.48. 9261 12167 ? 19683 24389
(1) 17576 (2) 20025 (3) 15625 (4) 13824 (5) None of these

Q.49. 362880 45360 ? 1080 216
(1) 6380 (2) 5880 (3) 6480 (4) 6280 (5) None of these

Q.50. 2156 2077 ? 1682 1366
(1) 1919 (2) 1829 (3) 2002 (4) 1661 (5) None of these

TEST - 8
QUANTITATIVE APTITUDE

Q.1-25. What should come in place of the question mark (?) in the following questions:

Q.1. $11 \times 468 \div 26 = ? + 13$
(1) 175 (2) 185 (3) 211 (4) 201 (5) None of these

Q.2. $\sqrt{?}$ % of 160 = 64 ÷ 2
(1) 40 (2) 400 (3) 20 (4) $\sqrt{20}$

Q.3. $\sqrt{42 \times 3 + 14 \times 4 + 179} = ?$
(1) $\sqrt{19}$ (2) 361 (3) $(361)^2$ (4) $\sqrt{325}$ (5) None of these

Q.4. $(224 \div 14)^2 \div 32 + 47 = ?$
(1) 55 (2) 45 (3) 65 (4) 35 (5) None of these

Q.5. $255 \div 17 \div 5 = (?)^2$
(1) 9 (2) $\sqrt{3}$ (3) 3 (4) 27 (5) 81

Q.6. $\sqrt{1156} \div \sqrt{289} = ? \div 8$
(1) 32 (2) 16 (3) 0.25 (4) 0.45 (5) None of these

Q.7. ?% of 550 - 12% of 150 = 125
(1) 54 (2) 44 (3) 16 (4) 36 (5) None of these

Q.8. 87878 - 7878 - 6666 - 777 - 33 = ?
(1) 73354 (2) 75224 (3) 72534 (4) 72524 (5) None of these

Q.9. $(1+\sqrt{5})^2 = ? + \sqrt{20}$
(1) $6 + 4\sqrt{5}$ (2) $4\sqrt{5}$ (3) 6 (4) $\sqrt{6}$ (5) None of these

Q.10. $(3)^{35} \times (9)^{22} \div 27 = (3)^?$
(1) 3.7 (2) 4.6 (3) 5.9 (4) 4.9 (5) None of these

Q.11. $4\frac{1}{3} + 3\frac{1}{4} - 1\frac{1}{12} = ?$
(1) $6\frac{1}{2}$ (2) $6\frac{5}{12}$ (3) $4\frac{1}{2}$ (4) $1\frac{1}{12}$ (5) None of these

Q.12. $214 - (5)^3 \times 9 \div 15 = ?$
(1) 149 (2) 133 (3) 159 (4) 143 (5) None of these

Q.13. 2234 + 84 - 1273 = ? + 123
(1) 922 (2) 932 (3) 822 (4) 832 (5) None of these

Q.14. 45% of 160 + 14% of 250 = ? - 23
(1) 120 (2) 138 (3) 130 (4) 140 (5) None of these

Q.15. $\frac{3}{13}$ of $\frac{5}{9}$ of 585 = ?
(1) 5 (2) 25 (3) 75 (4) 125 (5) None of these

Q.16. 56.703 - 63.179 + 49.361 = ?
(1) 41.785 (2) 41.885 (3) 42.895 (4) 42.885 (5) None of these

Q.17. 135 - 924 ÷ 132 x 6 = ?
(1) 93 (2) 103 (3) 43 (4) 123 (5) None of these

Q.18. $2\frac{3}{5} \times 2\frac{4}{13} \times 1\frac{1}{3} \div 1\frac{7}{9} = ?$
(1) $2\frac{1}{4}$ (2) $4\frac{1}{4}$ (3) $\frac{7}{8}$ (4) $2\frac{1}{2}$ (5) None of these

Q.19. $(6)^2 \times (9)^2 \div (3)^3 = (?) \times 5$
(1) 21.6 (2) 21.06 (3) 540 (4) 504 (5) None of these

Q.20. 750.46 + 114.09 - 840.04 = ? - 13.09
(1) 37.06 (2) 63.78 (3) 37.60 (4) 67.38 (5) None of these

Q.21. ? ÷ 12 × 17 = 238
(1) 178 (2) 218 (3) 128 (4) 208 (5) None of these

Q.22. $264 \div \sqrt{576} + (11)^2 + 12 = (?)^2$
(1) $\sqrt{12}$ (2) 144 (3) 12 (4) $(132)^2$ (5) 132

Q.23. $\sqrt{841} \times \sqrt{64} \div \sqrt{25} = ?$
(1) 44.6 (2) 46.4 (3) 45.75 (4) 44.06 (5) None of these

Q.24. 64% of 750 ÷ 4 = ? ÷ 5
(1) 24 (2) 48 (3) 300 (4) 600 (5) None of these

Q.25. $(0.04)^5 \times (0.2)^4 \div (0.008)^2 = (0.2)^?$
(1) 5 (2) 6 (3) 7 (4) 8 (5) None of these

Q.26. A man crosses a stationary train in 5 minutes. The same train crosses a pole in 48 seconds. What is the ratio between the speed of the man and the speed of the train respectively ?
(1) 3 : 25 (2) 4 : 25 (3) 25 : 3
(4) Cannot be determined (5) None of these

Q.27. In a quadrilateral PQRS, angle Q is twice the angle P. Angle R is thrice the angle P. The value of angle R is 150°. What is the difference between angle Q and angle S ?
(1) 30° (2) 60° (3) 40° (4) 50° (5) None of these

Q.28. Kshitiz drinks 905 ml. of water every day. How many litres of water will he consume in 15 days ?
(1) 13.655 litres (2) 17.575 litres (3) 13.575 litres
(4) 15.745 litres (5) None of these

Q.29. The sum of four consecutive even numbers is 156. What is the value of thrice the largest even number ?
(1) 124 (2) 128 (3) 136 (4) 134 (5) None of these

Q.30. Train fare between Nagpur and Nasik for one adult is three times the train fare for one child. If adult's train fare is Rs.102/-, how much amount will be paid by 3 adults and 4 children together for travelling the same distance ?
(1) Rs.432/- (2) Rs. 532/- (3) Rs. 612/-
(4) Rs. 442/- (5) None of these

Q.31. Three men can complete a piece ,of work in 18 days. 6 boys can also complete the same piece of work in 18 days. In how many days will 4 men and 4 boys together complete the same piece of work ?
(1) 10 days (2) 6 days (3) 12 days (4) 9 days (5) None of these

Q.32. The average marks of a student in seven subjects is 41. After re-evaluation in one subject the marks were changed to 42 from 14 and in remaining subjects the marks remained unchanged. What are the new average marks ?
(1) 45 (2) 44 (3) 46 (4) 47 (5) None of these

Q.33. Six-seventh of a number is equal to the sum of $(3)^2$ and $(15)^2$ together. What is the number ?
(1) 273 (2) 263 (3) 234 (4) 242 (5) None of these

Q.34. What will be the simple interest accrued on a sum of Rs. 5,224/- at a rate of 5 p.c.p.a. in 5 years ?
(1) Rs.1,360/- (2) Rs. 653/- (3) Rs. 763/-
(4) Rs.1,206/- (5) None of these

Q.35. The average speed of a car is 75 kms./hr. What will be the average speed of the car if the driver decreases the average speed of the car by 40 percent ?
(1) 50 Kms./Hr (2) 45 Kms./Hr. (3) 40 Kms./Hr.
(4) 55 Kms./Hr (5) None of these

Q.36-38. What will come in place of the question mark (?) in the following number series ?

Q.36. 4 29 129 354 754 (?)
(1) 1376 (2) 1368 (3) 1379 (4) 1739 (5) None of these

Q.37. 13 19 31 49 73 (?)
(1) 97 (2) 103 (3) 109 (4) 91 (5) None of these

Q.38. 456 392 360 344 336 (?)
(1) 332 (2) 328 (3) 340 (4) 324 (5) None of these

Q.39. In an examination Sunil secured 480 marks out of 1200 marks and failed by 96 marks. What is the minimum passing percentage ?
(1) 46 (2) 45 (3) 42 (4) 38 (5) None of these

Q.40. What will come in place of both the question marks (?) in the following question ?

$$\frac{?}{7} = \frac{28}{?}$$

(1) $\sqrt{14}$ (2) $(196)^2$ (3) 196 (4) 14 (5) 12

Q.41. The difference between the length and the breadth of a rectangle is 7 Cms. and the perimeter of the rectangle is 50 Cms. What is the area of the rectangle ?
(1) 144 Sq.Cms. (2) 154 Sq.Cms. (3) 288 Sq.Cms.
(4) 216 Sq.Cms. (5) None of these

Q.42. The base of a right angled triangle is 9 Cms. and its area is 81 Sq.Cms. What is the height of the right angled triangle ?
(1) 36 Cms. (2) 9 Cms. (3) 27 Cms. (4) 12 Cms. (5) None of these

Q.43. The radius of a circle is 1 cm less than half the side of a square whose area is 256 Sq.Cms. What is the area of the circle ?
(1) 132 Sq.Cms. (2) 154 Sq.Cms. (3) 144 Sq.Cms.
(4) 165 Sq.Cms. (5) None of these

Q.44. Raju sold an item for Rs.6,000/- at a loss of 25%. At what cost would he have purchased that item ?
(1) Rs. 7,500/- (2) Rs. 7,200/- (3) Rs. 8,000/-
(4) Rs. 8,500/- (5) None of these

Q.45. A number when multiplied by five times of itself gives the value equal to 720. What is the number ?
(1) 13 (2) 9 (3) 15 (4) 8 (5) 12

Q.46. The postal charges for booking a parcel of 250 grams are Rs. 75/-. What will be the postal charges for booking a parcel of 1.8 kilograms ?
(1) Rs. 600/- (2) Rs.540/- (3) Rs. 500/-
(4) Rs. 560/- (5) None of these

Q.47. What is the smallest number which when divided by 8, 12 and 14 gives the remainder 6 ?
(1) 174 (2) 168 (3) 162 (4) 154 (5) None of these

Q.48. The ratio between the present ages of a man and his wife is 4 : 3 respectively. Also, the man is 8 years older than his wife. What is the present age of their daughter who is one-eighth the present age of her mother ?
(1) 6 years (2) 3 years (3) 12 years (4) 9 years (5) None of these

Q.49. Last year there were 720 tigers in a wild life sanctuary. The number increased by 15 percent this year. How many tigers remain this year in the wild life sanctuary ?
(1) 728 (2) 816 (3) 828 (4) 816 (5) None of these

Q.50. If Rs. 4,601/- were distributed equally among 37 people, Rs.13/- was left out. How much amount did each person get ?
(1) Rs.136/- (2) Rs.144/- (3) Rs.128/-
(4) Rs.124/- (5) None of these

TEST-9
QUANTITATIVE APTITUDE

Q.1-25. What value will come in place of question mark (?) in the questions given below?

Q.1. $12.3 \times 14.5 \times 11.4 = ? + (3.4)^2$
(1) 2131.53 (2) 2021.63 (3) 2321.43 (4) 2450.62 (5) None of these

Q.2. $53.2 \times 42 + 7.4 \times 1.2 = ? + 86.54$
(1) 2246.54 (2) 2247.47 (3) 2546.34 (4) 2156.74 (5) None of these

Q.3. $136 \times 68 + (72)^2 = ? + (81)^2$
(1) 7961 (2) 7871 (3) 8921 (4) 6871 (5) None of these

Q.4. $(64)^{2X} \times (128)^{-X} \div (32)^{-\frac{X}{2}} = (2)^{?+\left(X-\frac{1}{2}\right)}$
(1) $\frac{11x}{2} - 1$ (2) $\frac{13x}{2} + 1$ (3) $\frac{11x+1}{2}$ (4) $\frac{13x+1}{2}$ (5) None of these

Q.5. $86 \times 74 - 3246 = ? + 346$
(1) 2750 (2) 2762 (3) 2772 (4) 2972 (5) None of these

Q.6. $(763.5)^2 = ? + 76.50$
(1) 565254.35 (2) 593845.35 (3) 582855.75 (4) 562854.75 (5) None of these

Q.7. 32.5% of 8650 + 58% of 768 = ? + 634.5
(1) 27863.29 (2) 2624.54 (3) 2623.19 (4) 2622.29 (5) None of these

Q.8. $(72)^2 \times 1.2 = ? + 635.870$
(1) 5632.93 (2) 5734.73 (3) 5963.93 (4) 5584.93 (5) None of these

Q.9. $13.4 \times 14.2 - 7.4 \times 7.8 = ?$
(1) 122.56 (2) 132.56 (3) 130.26 (4) 136.56 (5) None of these

Q.10. $? = \left[\frac{16(6.5)^2 + 1}{(7.5)^2 - 7.5 \times 2}\right]$
(1) $\frac{2850}{225}$ (2) $\frac{2958}{225}$ (3) $\frac{2718}{215}$ (4) $\frac{2708}{225}$ (5) None of these

Q.11. $2\frac{4}{12} - \frac{9}{7} + 4\frac{1}{14} = ?$
(1) $5\frac{4}{42}$ (2) $5\frac{4}{43}$ (3) $5\frac{5}{42}$ (4) $4\frac{13}{42}$ (5) None of these

Q.12. $4\frac{3}{4} \times 2\frac{1}{4} - 2\frac{3}{4} = ?$
(1) $7\frac{15}{16}$ (2) $7\frac{13}{16}$ (3) $7\frac{11}{16}$ (4) $7\frac{17}{19}$ (5) None of these

Q.13. $2\frac{7}{9} + \frac{3}{4} + 1\frac{4}{5} = ?$
(1) $5\frac{43}{180}$ (2) $5\frac{59}{180}$ (3) $5\frac{49}{90}$ (4) $4\frac{19}{90}$ (5) None of these

Q.14. $(18 \times 14) - (17 \times 13) - 74 = ? - 76.45$
(1) 34.45 (2) 33.25 (3) 35.50 (4) 33.45 (5) None of these

Q.15. $7687.54 - 346.59 + 768.25 = ? - 67.76$
(1) 8837.2 (2) 8727.3 (3) 8937.9 (4) 8817.9 (5) None of these

Q.16. $76 \times 123 - 124 \times 5.05 = ? + 72.5$
(1) 8529.30 (2) 8649.30 (3) 8854.25 (4) 8719.30 (5) None of these

Q.17. $\sqrt{3136} \times \sqrt{6084} = \sqrt{3969} + ?$
(1) 4405 (2) 4415 (3) 4305 (4) 4255 (5) None of these

Q.18. $23800 \text{ of } \frac{3}{5} \text{ of } \frac{8}{17} \text{ of } \frac{4}{7} = ?$
(1) 3660 (2) 3840 (3) 3950 (4) 3870 (5) None of these

Q.19. $0.8 \times 6.42 \div 0.16 \times 7.4 = ?$
(1) 237.34 (2) 237.54 (3) 227.24 (4) 233.52 (5) None of these

Q.20. $\sqrt{5476} + 4 \times \sqrt{6724} = ? + 67.25$
(1) 332.75 (2) 336.50 (3) 334.25 (4) 334.75 (5) None of these

Q.21. $687.42 + 76.54 - 4.256 = ? + 32.54$
(1) 729.132 (2) 717.264 (3) 729.164 (4) 720.540 (5) None of these

Q.22. $\frac{1}{\sqrt{14161}} \times 29155 = ?$
(1) 235 (2) 245 (3) 248 (4) 255 (5) None of these

Q.23. $(89)^2 = (59)^2 + (61)^2 + ?$
(1) 284 (2) 241 (3) 281 (4) 271 (5) None of these

Q.24. $\sqrt{0.001156} \times \sqrt{12.6736} = ?$
(1) 0.10204 (2) 0.13024 (3) 0.11246 (4) 0.12104 (5) None of these

Q.25. $4^3 + \sqrt{4624} \times \sqrt{3136} = ? - (8)^3$
(1) 4174 (2) 7284 (3) 4742 (4) 4384 (5) None of these

Q.26. $x*y = (x+2)^2.(y-2)$ then what is the value of 6*5 ?
(1) 172 (2) 192 (3) 105 (4) 182 (5) None of these

Q.27. Which fraction will be multiplied by fraction $2\frac{5}{7}$, so that its product will be $4\frac{13}{21}$?
(1) $\frac{57}{97}$ (2) $\frac{21}{97}$ (3) $\frac{7}{19}$ (4) $\frac{97}{57}$ (5) None of these

Q.28. A is three times more efficient than B hence he takes 60 days less days taken by B in a certain task. In how many days will both complete this work?
(1) 30 days (2) 45 days (3) $17\frac{1}{2}$ days (4) $22\frac{1}{2}$ days (5) None of these

Q.29. In what rate of percent Rs. 800 becomes 836 in $\frac{3}{4}$ years?
(1) 6% (2) 7% (3) 5% (4) 12% (5) None of these

Q.30. What is the simple interest of Rs. 1550 at the rate of 4% in 39 months ?
(1) Rs. 211.25 (2) Rs. 210.25 (3) Rs. 201.50 (4) Rs. 204.50 (5) None of these

Q.31. The circumference of circular field is 616 m. then find out the area?
(1) 30080 m². (2) 28226 m². (3) 34184 m². (4) 30184 m². (5) None of these

Q.32. The average of 7 numbers is 48. The sum of five numbers is 250. What is the average of remaining two numbers?
(1) 45 (2) 43 (3) 46 (4) 47 (5) None of these

Q.33. Two train are of lengths 150 metre and 250 metre respectively. Trains are running at the speed of 45 km /hr. and 65 km /hr. respectively in same direction. What will be the time taken by second train to cross the first train ?
(1) 1 min 15 sec. (2) 1 min 12 sec. (3) 1 min 30 sec.
(4) 2 min 15 sec. (5) None of these

Q.34. 3 men can complete a piece of work in 6 days. After two days of starting the work 3 men were added. In how many days the remaining work will be completed ?
(1) 4 days (2) 5 days (3) 2 days (4) 3 days (5) None of these

Q.35. 12 men can complete a piece of work in 16 days. In how many days will 4 men complete the same piece of work?
(1) 60 days (2) 45 days (3) 54 days (4) 48 days (5) None of these

Q.36. How much distance will a bus cover in $7\frac{1}{2}$ hours if it is moving with a uniform speed of 45 km./hr.?
(1) 347.5 km. (2) 360.5 km. (3) 337.5 km. (4) 339.5 km. (5) None of these

Q.37. What will come in place of both question mark (?) in the following equation ?
$\frac{22.09}{?} = \frac{?}{7.84}$
(1) 14.16 (2) 14.14 (3) 13.16 (4) 12.16 (5) None of these

Q.38. What least number should be added to 5320 to make it a perfect square?
(1) 9 (2) 136 (3) 126 (4) 179 (5) None of these

Q.39. In how many different ways can the letters of word 'DIVISION' can be arranged?
(1) 6020 (2) 5040 (3) 6220 (4) 6720 (5) None of these

Q.40. The surface area of a cube is 384 m². Its volume will be-
(1) 343 m³. (2) 616 m³. (3) 512 m³. (4) 660 m³. (5) None of these

Q.41. Ram spent $\frac{2}{5}$ of his income for a month on rent and $\frac{3}{4}$th of the remainder on other expenses. The balance of Rs. 180 he put in his saving account. How much was his income for the month?
(1) Rs. 1400 (2) Rs. 1200 (3) Rs. 1600 (4) Rs. 1500 (5) None of these

Q.42. 42% of a number is 23646. What is 29% of this number?
(1) 16217 (2) 16327 (3) 16437 (4) 17325 (5) None of these

Q.43. In 729 ml. mixture the ratio of milk and water is 7:2. How much quantity of water should be added in new mixture so that the ratio of milk and water becomes 7:3?
(1) 72 ml. (2) 81 ml. (3) 85 ml. (4) 90 ml. (5) None of these

Q.44. A scholarship of Rs. 360272 was equally divided among 46 students. How much amount did each student get?
(1) Rs. 7942 (2) Rs. 8282 (3) Rs. 7942 (4) Rs. 7832 (5) None of these

Q.45. What is product of 876 and 679?
(1) 558724 (2) 584724 (3) 594804 (4) 562480 (5) None of these

Q.46-50. What value will come in place of question mark (?) in the number-series given below?

Q.46. 17 306 ? 380 21 462
(1) 20 (2) 18 (3) 19 (4) 22 (5) None of these

Q.47. 13 58.5 204.75 ? 767.8125
(1) 512.775 (2) 511.875 (3) 511.375 (4) 511.275 (5) None of these

Q.48. 789 1046 1303 ? 1817
(1) 1515 (2) 1460 (3) 1530 (4) 1560 (5) None of these

Q.49. 2197 ? 3375 4096 4913
(1) 2524 (2) 2455 (3) 5832 (4) 1728 (5) None of these

Q.50. 426 1708 6836 ? 109396
(1) 27348 (2) 25238 (3) 24528 (4) 26418 (5) None of these

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(1) 4405 (2) 4415 (3) 4305 (4) 4255 (5) None of these

Q.18. 23800 of $\frac{3}{5}$ of $\frac{8}{17}$ of $\frac{4}{7} = ?$
(1) 3660 (2) 3840 (3) 3950 (4) 3870 (5) None of these

Q.19. $0.8 \times 6.42 \div 0.16 \times 7.4 = ?$
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(1) 30080 m^2. (2) 28226 m^2. (3) 34184 m^2. (4) 30184 m^2. (5) None of these

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(1) 1 min 15 sec. (2) 1 min 12 sec. (3) 1 min 30 sec.
(4) 2 min 15 sec. (5) None of these

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(1) 4 days (2) 5 days (3) 2 days (4) 3 days (5) None of these

Q.35. 12 men can complete a piece of work in 16 days. In how many days will 4 men complete the same piece of work?
(1) 60 days (2) 45 days (3) 54 days (4) 48 days (5) None of these

Q.36. How much distance will a bus cover in $7\frac{1}{2}$ hours if it is moving with a uniform speed of 45 km./hr.?
(1) 347.5 km. (2) 360.5 km. (3) 337.5 km. (4) 339.5 km. (5) None of these

Q.37. What will come in place of both question mark (?) in the following equation ?
$\frac{22.09}{?} = \frac{?}{7.84}$
(1) 14.16 (2) 14.14 (3) 13.16 (4) 12.16 (5) None of these

Q.38. What least number should be added to 5320 to make it a perfect square?
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(1) 6020 (2) 5040 (3) 6220 (4) 6720 (5) None of these

Q.40. The surface area of a cube is 384 m^2. Its volume will be-
(1) 343 m^3. (2) 616 m^3. (3) 512 m^3. (4) 660 m^3. (5) None of these

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(1) Rs. 1400 (2) Rs. 1200 (3) Rs. 1600 (4) Rs. 1500 (5) None of these

Q.42. 42% of a number is 23646. What is 29% of this number?
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Q.45. What is product of 876 and 679?
(1) 558724 (2) 584724 (3) 594804 (4) 562480 (5) None of these

Q.46-50. What value will come in place of question mark (?) in the number-series given below?

Q.46. 17 306 ? 380 21 462
(1) 20 (2) 18 (3) 19 (4) 22 (5) None of these

Q.47. 13 58.5 204.75 ? 767.8125
(1) 512.775 (2) 511.875 (3) 511.375 (4) 511.275 (5) None of these

Q.48. 789 1046 1303 ? 1817
(1) 1515 (2) 1460 (3) 1530 (4) 1560 (5) None of these

Q.49. 2197 ? 3375 4096 4913
(1) 2524 (2) 2455 (3) 5832 (4) 1728 (5) None of these

Q.50. 426 1708 6836 ? 109396
(1) 27348 (2) 25238 (3) 24528 (4) 26418 (5) None of these

TEST-10
QUANTITATIVE APTITUDE

Q.1-5. What should come in place of the question mark (?) in the following questions ?

Q.1. 5x? = 8042÷4
(1) 396.1 (2) 6433.6 (3) 10052.5 (4) 402.1 (5) None of these

Q.2. 206 x 71 - 12080 = ?
(1) 2546 (2) 2654 (3) 2564 (4) 2645 (5) None of these

Q.3. $\frac{3}{7} \div \frac{9}{14} \times \frac{6}{11} = ?$
(1) $\frac{5}{22}$ (2) $\frac{9}{11}$ (3) $\frac{4}{11}$ (4) $\frac{7}{22}$ (5) None of these

Q.4. $\sqrt{?} \div 22 = \sqrt{2601}$
(1) $\sqrt{841}$ (2) $(841)^2$ (3) $\sqrt{22}$ (4) 22 (5) None of these

Q.5. $2\frac{4}{5} - 1\frac{3}{8} + 3\frac{1}{2} = ?$
(1) $5\frac{17}{40}$ (2) $4\frac{37}{40}$ (3) $2\frac{27}{40}$ (4) $3\frac{11}{40}$ (5) None of these

Q.6. 14% of 905 + ? = 287
(1) 158.7 (2) 160.3 (3) 153.1 (4) 162.5 (5) None of these

Q.7. 2073.5 ÷ (22 x 14.5) = ?
(1) 5.5 (2) 6.5 (3) 4.5 (4) 3.5 (5) None of these

Q.8. 6824 + 7864 = ? x 40
(1) 376.4 (2) 359.2 (3) 363.4 (4) 367.2 (5) None of these

Q.9. 10000÷100÷10 = ?
(1) 1 (2) 0.1 (3) 1000 (4) 100 (5) None of these

Q.10. $(49)^2 \times (7)^8 \div (343)^3 = (7)^?$
(1) 3 (2) 13 (3) 7 (4) 9 (5) None of these

Q.11. 7825 – 9236 + 5234 = ? x 25
(1) 152.92 (2) 152.29 (3) 125.29 (4) 125.92 (5) None of these

Q.12. 58% of 450 - ?% of 250 = 181
(1) 44 (2) 40 (3) 32 (4) 38 (5) None of these

Q.13. 17.7% of 286 = ?
(1) 62.262 (2) 48.266 (3) 64.626 (4) 50.622 (5) None of these

Q.14. 13.5x16.3x12.8 = ?
(1) 2861.46 (2) 2168.46 (3) 2816.64 (4) 2186.64 (5) None of these

Q.15. 525.25 + 52.52 + 5.2 = ?
(1) 578.79 (2) 528.97 (3) 588.97 (4) 582.79 (5) None of these

Q.16-20. What **approximate** value should come in place of the question mark (?) (Note : You are not expected to calculate the exact value.)

Q.16. $(12.999)^3$ = ?
(1) 1800 (2) 1650 (3) 2000 (4) 2500 (5) 2200

Q.17. 50550 ÷ 50 ÷ 5 = ?
(1) 350 (2) 150 (3) 300 (4) 250 (5) 200

Q.18. 49.0003÷74.999=?
(1) 0.05 (2) 0.2 (3) 1 (4) 0.7 (5) 2

Q.19. 23.003 x 22.998 + 100.010 = ?
(1) 630 (2) 550 (3) 700 (4) 720 (5) 510

Q.20. 125.009 + 69.999 + 104.989 = ?
(1) 420 (2) 300 (3) 285 (4) 415 (5) 325

Q.21-25. What should come in place of question mark (?) in the following number series ?

Q.21. 2 14 84 420 1680 5040 ?
(1) 9940 (2) 7680 (3) 10080 (4) 5040 (5) None of these

Q.22. 3 5 8 13 21 34 ?
(1) 72 (2) 47 (3) 55 (4) 64 (5) None of these

Q.23. 1 2 6 21 ? 445 2676
(1) 88 (2) 67 (3) 62 (4) 84 (5) None of these

Q.24. 27 125 ? 729 1331 2197 3375
(1) 512 (2) 447 (3) 216 (4) 343 (5) None of these

Q.25. 10400 2600 650 ? 40.625 10.15625 2.5390625
(1) 185.5 (2) 162.5 (3) 164.75 (4) 156.25 (5) None of these

Q.26. The average of four consecutive odd numbers A, B, C and D respectively is 24. What is the product of B & D ?
(1) 483 (2) 675 (3) 621 (4) 525 (5) None of these

Q.27. Swati walks 150 meters every day. How many kilometres will she walk In 3 weeks ?
(1) 2.04 (2) 5.92 (3) 4.18 (4) 3.15 (5) None of these

Q.28. The area of a square is thrice the area of a rectangle. If the area of the square is 225 sq.cms and the length of the rectangle is 15 cms, what is the difference between the breadth of the rectangle and the side of the square ?
(1) 8 cms (2) 10 cms (3) 12 cms (4) 6 cms (5) None of these

Q.29. Find the average of the following set of scores—
125, 236, 334, 486, 564, 625,702, 800
(1) 448 (2) 482 (3) 524 (4) 542 (5) None of these

Q.30. A truck covers a certain distance in 12 hours at the speed of 70 kms./hr. What is the average speed of a car which travels a distance of 120 kms more than the truck in the same time ?
(1) 76 kms./hr. (2) 85 kms./ hr. (3) 82 kms./hr. (4) 78 kms./hr. (5) None of these

Q.31. The difference between 55% of a number and 14% of the same number is 8610. What is 85% of that number ?
(1) 17850 (2) 16820 (3) 18020 (4) 19450 (5) None of these

Q.32. Kirti's monthly income is two-third Sneha's monthly income. Sneha's annual income is ₹ 4,32,000. What is Kirti's annual income ? (In some cases monthly income and in some cases annual income is used)
(1) ₹ 2,92,000/- (2) ₹ 2,63,500/- (3) ₹ 2,48,200/- (4) ₹ 2,88,000/- (5) None of these

Q.33. At present Palash is three times Arnav's age. After seven years Palash will be twice Arnav's age then. How many times will Palash's age be in another fourteen years time with respect to Arnav's age then ?
(1) 1 (2) 3 (3) 2 (4) 1.5 (5) None of these

Q.34. Paresh got 102 marks in Hindi, 118 marks in Science, 104 marks in Sanskrit, 114 marks in Maths and 96 marks in English. The maximum marks of each subject are 120. How much overall percentage of marks did Paresh get ?
(1) 89 (2) 82 (3) 77 (4) 71 (5) None of these

Q.35. 6 women alone can complete a piece of work in 10 days, whereas 10 children alone take 15 days to complete the same piece of work. How many days will 6 women and 10 children together take to complete the piece of work ?
(1) 7 (2) 8 (3) 6 (4) 4 (5) None of these

Q.36. Suhas sold an item for ₹ 7,500/- and incurred a loss of 25%. At what price should he have sold the item to have gained a profit of 25% ?
(1) ₹ 13,800/- (2) ₹ 12,500/- (3) ₹ 11,200/-
(4) Cannot be determined (5) None of these

Q.37.. On teacher's day sweets were to be equally distributed amongst 540 children. But on that particular day 135 children remained absent; hence each child got 2 sweets extra. How many sweets was each child originally supposed to get ?
(1) 4 (2) 8 (3) 10
(4) 6 (5) Cannot be determined

Q.38. Maria earned a profit of 30 percent on selling an article for ₹ 6,110/-. What was the cost price of the article ?

(1) ₹ 5,725/- (2) ₹ 4,080/- (3) ₹ 5,250/- (4) ₹ 4,400/- (5) Noneof these

Q.39. In an examination It is required to get 55% of the aggregate marks to pass. A student gets 520 marks and is declared failed by 5% marks. What are the **maximum** aggregate marks a student can get ?

(1) 960 (2) 1250 (3) 1040
(4) Cannot be determined (5) None of these

Q.40. The diameter of a circle is 7.7 cms. What is the circumference of the circle ?

(1) 26.4 cms (2) 24.2 cms (3) 28.4 cms (4) 22.2 cms (5) None of these

Q.41. In how many different ways can the letters of the word **'BELIEVE'** be arranged ?

(1) 840 (2) 1680 (3) 2520 (4) 5040 (5) Noneof these

Q.42. The compound interest accrued on an amount at the end of two years @ 16 p.c.p.a. is Rs.3041.28. What is the amount ?

(1) ₹ 10,500/- (2) ₹ 9,000/- (3) ₹ 7,250/- (4) ₹ 8,800/- (5) None of these

Q.43. The simple interest accrued in 9 years on a principal of ₹ 24,250/- is 162 percent of the principal. What is the rate of interest p.c.p.a.?

(1) 22 (2) 16 (3) 18
(4) Cannot be determined (5) None of these

Q.44. A 420 meters long train crosses a pole in 70 seconds. What is the speed of the train ?

(1) 5m/s (2) 7m/s (3) 4.5 m/s
(4) Cannot be determined (5) None of these

Q.45. Neela, Saroj and Paulami start running around a circular stadium and complete one round in 10 seconds, 6 seconds and 14 seconds respectively. In how much time will they meet again at the starting point ?

(1) 3 minutes 30 seconds (2) 2 minutes 28 seconds
(3) 4 minutes 45 seconds (4) 1 minute 40 seconds
(5) None of these

Q.46. A rectangular field has its length and breadth in the ratio of 6 :5 respectively. A man riding a bicycle, completes one lap of this field along Its perimeter at the speed of 19.8 km/hr in 2 minutes. What is the area of the field ?

(1) 19200 sq.mts. (2) 27000 sq. mts. (3) 32500 sq. mts.
(4) Cannot be determined (5) None of these

Q.47. Out of the fractions $\frac{4}{5}, \frac{8}{9}, \frac{6}{7}, \frac{1}{3}$ and $\frac{3}{8}$ what is the sum of the largest and smallest fractions ?

(1) $2\frac{5}{7}$ (2) $1\frac{3}{5}$ (3) $1\frac{1}{7}$ (4) $2\frac{7}{9}$ (5) None of these

Q.48. What will come in place of both the question marks (?) in the following question ?

$$\frac{(?)^{27}}{98} = \frac{(28)}{(?)^{03}}$$

(1) 7 (2) 14 (3) 8 (4) 12 (5) None of these

Q.49. The average height of four girls was recorded as 150 cms. If the average of the heights of three girls out of the four was 148 cms, what was the height of the fourth girl ?

(1) 156 cms (2) 168cms (3) 170 cms (4) 162 cms (5) None of these

Q.50. What would be the area of a circle whose circumference is 35.2 cms ?

(1) 67.22 sq.cms (2) 75.54 sq.cms (3) 98.56 sq.cms
(4) 86.75 sq.cms (5) None of these

EXPLANATION

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/01

Q.1.(4) $3+1+2\sqrt{3} = ?+2\sqrt{3}$, $? = 4$

Q.2.(2) $(3)^? = \frac{9\times 81}{27} = 9\times 3 = (3)^2\times 3 = 3^{2+1}$

$? = 3$

Q.3.(1) $? = 4\frac{13}{30} - 3\frac{1}{3} = 1\frac{3}{30} = 1\frac{1}{10}$

Q.4.(3) $? = 32$

Q.5.(1) $56 = ? - 56$

$? = 112$

Q.6.(2) $\frac{13}{26} = 18 \div ?$

$\frac{1}{2} = \frac{18}{?}$

$? = 36$

Q.7.(5) $\frac{96\times 7}{14} = ?\times 6$

$? = 8$

Q.8.(2) $(?)^2 = 7\times 3 - 10 = 11$

$? = \sqrt{11}$

Q.9.(1) $70 - 153 = ? - 150$

$-83 = ? - 150$

$? = 150 - 83$

$= 67$

Q.10.(3) $? = 1015 - 141 = 1156$

Q.11.(4) $? = 144.09 - 82.48 = 61.61$

Q.12.(5) $\frac{416}{4} = ?\times 4$, $? = 26$

Q.13.(1) $? = \frac{3}{7} - \frac{1}{4} - \frac{1}{28} = \frac{12-7-1}{28} = \frac{1}{7}$

Q.14.(1) $\frac{2384}{16} = (?)^2 - 20$

$149 = (?)^2 - 20$

$(?)^2 = 169$

$? = 13$

Q.15.(3) $32-81+64-25+49 = (?)^2 + 3$

$145 - 106\ (?)^2 + 3$

$(?)^2 = 36$

$? = 6$

Q.16.(4) $(?)^3 = 1.5\times 144 = 216 = (6)^3$

$? = 6$

Q.17.(2) $255 - 12.2\times ? = 72$

$12.2\times ? = 183$

$? = 15$

Q.18.(3) $? = 7\times 9\times 2 = 126$

Q.19.(5) $? = 13433 - 11434 = 1999$

Q.20.(5) $? = 887 - 112 = 775$

Q.21.(1) $? = 116.7 - 62.70 = 54$

Q.22.(2) $? = \frac{483}{5} = 96.6$

Q.23.(3) $(8)^? = 8^{\frac{1}{2}\times 6}\times 8^6 \div 8^4$

$8^? = 8^{3+6-4}$

$8^? = 8^5$

$? = 5$

Q.24.(2) $? = 6\times 12 + 28 = 72 + 28 = 100$

Q.25.(1) $? = 12\times 7 - 63 + 28 = 84 - 63 + 28$

$= 112 - 63 = 49 = 7^2$

Q.26.(3) Speed of train $= \frac{270}{3} = 90$ km/hrs.

Speed of car $= 90\times\frac{2}{3} = 60$ km/hr.

Distance $= 60\times 5 = 300$ km

Q.27.(4) Charge $= \frac{60}{500}\times 5500 =$ Rs. 660

Q.28.(4) Quantity of milk required for 2 weeks

$= 450\times 14 = 6300$ ml.

$= \frac{6300}{1000} = 6.3$ litre

Q.29.(4) No. of copies $= 1200\times 7 = 8400$

Total cost $= 8400\times 5 =$ Rs. 42000

Commission $= 42000\times\frac{15}{100} =$ Rs. 6300

Q.30.(5) $20\times 36 = 15\times x$

$x = 48$ days

Q.31.(3) Average $= \frac{168}{7} = 24$

Numbers = 21, 22, 23, 24, 25, 26, 27

Total = 21 + 27 = 48

Q.32.(5) Raju = Arun $\times\frac{27}{100} = 25000\times\frac{27}{100}$

= Rs. 6750

Annual salary = 12 × 6750 = Rs. 81000

Q.33.(2) Average number $= \frac{488}{4} = 122$

Q.34.(2) Value $= 750\times\frac{65}{100}\times\frac{2}{5} = 195$

Q.35.(4) Data are inadequate

Q.36.(1) Area of square $= 360\times\frac{100}{90} = 400$ cm²

Side of square $= \sqrt{400} = 20$ cm

Q.37.(2) Diagonal² $= l^2 + b^2$

$10^2 = L^2 + 6^2$

$L^2 = 100 - 36 = 64$

$L = 8$ cm

Perimeter $= 2(8 + 6) = 28$ cm.

Q.38.(1) Total fare $= 148\times 3 + 74\times 3 = 444 + 222$

= Rs. 666

Q.39.(1) C.P. $= 1416\times\frac{100}{118} =$ Rs. 1200

Q.40.(2) No. of chairs $= \frac{110\times 13}{65} = 22$

Q.41.(4) Smallest angle $= 360\times\frac{1}{10} = 36^0$

largest angle $= 360\times\frac{4}{10} = 144^0$

Total $= 36\times 2 + \frac{144}{2} = 144^0$

Q.42.(1) 2 | 8, 10, 12

2 | 4, 5, 6

2, 5, 3

Least no. $= 2\times 2\times 2\times 5\times 3 + 7$

$= 120 + 7 = 127$

Q.43.(3) $1428 = \frac{4080\times 7\times t}{100}$

t = 5 years.

Q.44.(3) Number of trees $= 170\times\frac{140}{100} = 238$

Q.45.(5) $?^2 = 1156$

$? = 34$

Q.46.(2) $? = 32 + 19 + 4 = 55$

Q.47.(1) $? = 49\times 5.36 + 200 = 460$ (approx)

Q.48.(3) +4, +8, +16, +32, +64,

Q.49.(1) -35, -28, -21, -14, -7

Q.50.(5) $x + (19)^2 = (23)^2$

$x + 361 = 529$

$x = 168$

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/02

Q.1.(3) $? = \frac{416}{4\times 26} = 4$

Q.2.(1) $32-81+64-25+49 = 36 + \sqrt{?}$

$\sqrt{?} = 39 - 36 = 3$, $? = 9$

Q.3.(2) $70 - 153 = 67 - ?$

$? = 150$

Q.4.(2) $\frac{49-36}{26} = \frac{?}{36}$

$? = 18$

Q.5.(5) $(8)^3\times(8)^6\div(8)^? = (8)^5$

$3 + 6 - ? = 5$

$? = 4$

Q.6.(5) $? = 887 - 775 = 112$

Q.7.(3) $? = \frac{183+72}{10.2} = 25$

Q.8.(1) $8\times\sqrt{?} = \frac{96\times 7}{14}$

$\sqrt{?} = \frac{48}{8}$

$? = 36$

Q.9.(5) $? = 112 - 56 = 56$

Q.10.(1) $? = 877.64 - 864.55 = 13.09$

Q.11.(5) $? = \frac{19}{9}\times\frac{21}{19}\times\frac{3}{7} = 1$

Q.12.(4) $? = 6600 - 5253 = 1347$

Q.13.(2) $? = \frac{624\times 3}{72} = 26$

Q.14.(2) $? = 69.6 + 24.4 = 94$

Q.15.(3) $? = \frac{2.5}{0.05} = 50$

Q.16.(5) $? = \frac{0.2944}{0.184} = 1.6$

Q.17.(5) $\frac{(?)^2 + 256}{125} = 3.2$

$(?)^2 = 400 - 256 = 144$

$(?)^2 = (12)^2$

$? = 12$

Q.18.(3) $? = 20\times 2.8 = 56$

Q.19.(4) $? = 23.25\times 0.4 = 9.3$

Q.20.(1) $? = \frac{14418}{0.45} = 3204$

Q.21.(2) $\frac{510 + ?}{25} = 29.2$

$? = 730 - 510 = 220$

Q.22.(2) $? = \frac{-138}{46} = -3$

Q.23.(5) $105 - 51 - ? = 20$

$? = 54 - 20 = 34$

Q.24.(4) $? = 14022.12 - 10580.48 = 3441.64$

Q.25.(4) $8 \times ? = 7$

$? = \frac{7}{8}$

Q.26.(3) Sum $= \frac{385}{7} + \frac{715}{13} = 55 + 55 = 110$ km/hrs.

Q.27.(2) $\frac{4x+6}{5x+6} = \frac{14}{17}$

$68x + 102 = 70x + 84$

$x = 9$

Suneeta's present age $= 9 \times 4$

$= 36$ years

Q.28.(2) Cost price $= \frac{7889 \times 100}{115} =$ Rs. 6860

Q.29.(1) $x \times \frac{45}{100} = 608 + 67$

$x = \frac{675 \times 100}{45} = 1500$

Q.30.(4) Data inadequate

Q.31.(4) Total ways $= 7! = 5040$

Q.32.(2) Number of tigers $= 820 \times \frac{115}{100} = 943$

Q.33.(4) Area of square $= \frac{450 \times 100}{50} = 900$ cm.^{2}

Side of square $= \sqrt{900} = 30$ cm.

Perimeter of square $= 30 \times 4 = 120$ cm.

Q.34.(1) Total amount $= 15320 \times 29$

$=$ Rs. 4,44,280/-

Q.35.(3) Ascending order

$\frac{2}{9}, \frac{4}{13}, \frac{3}{7}, \frac{6}{11}, \frac{7}{9}$

Q.36.(5) Ajit = Anuj + 26.....(I)

Anuj = Ravi + 60.....(II)

Ajit + Anuj + Ravi = 200.....(III)

From eq. (I), (II) and (III)

Anuj $= \frac{234}{3} =$ Rs. 78/-

Q.37.(4) Second smallest angle $= \frac{360 \times 2}{10} = 72^0$

largest angle $= \frac{360 \times 4}{10} = 144^0$

required answer $= 72 \times 2 + \frac{144}{2} = 216^0$

Q.38.(5) Average Number $= \frac{492}{4} = 123$

Q.39.(1) Sumeet's annual income

$= 3200 \times \frac{24}{100} \times 12 =$ Rs. 9216/-

Q.40.(1) Required answer $= \frac{36 \times 8}{8 + 4} = \frac{288}{12} = 24$

Q.41.(2) -3, -6, -12, -24, -48

Q.42.(3) +9, +18, +27, +36, +45

Q.43.(1) $38.5 = \frac{22}{7} \times r^2$

$r^2 = 12.25$

$r = 3.5$ cm

Perimeter $= 2 \times \frac{22}{7} \times 3.5 = 22$ cm.

Q.44.(4) Man's present age $= 28 + 4 = 32$ years

Woman's present age $= \frac{32}{4} \times 5$

$= 40$ years

After 6 years woman's age $= 40 + 6$

$= 46$ years

Q.45.(4) $? = 1136 \div 50 \times 10 = 230$

Q.46.(3) $192 < 198$

Q.47.(3) $100 < 111$

Q.48.(1) $\frac{83}{60} > \frac{13}{14}$

Q.49.(4) $16 \geq \pm 16$

Q.50.(2) $108 = 108$

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/03

Q.1.(5) $? = \frac{3.6 \times 1.2 \times 1.2}{1.8 \times 1.8}$, $? = 1.6$

Q.2.(3) $? = \frac{6870 \times 4 \times 7}{3 \times 5}$ $? = 12824$

Q.3.(4) $? = \frac{5.4 \times 1.6}{0.018}$, $? = 480$

Q.4.(1) $? = 1713.76$

Q.5.(2) $? = \frac{2450}{1225}$, $? = 2$

Q.6.(2) $? = 29^{(6+4-8)}$, $? = 29^2$

$? = 841$

Q.7.(2) $32 \times \sqrt{?} = 768$, $\sqrt{?} = \frac{768}{32}$

$\sqrt{?} = 24$, $? = 576$

Q.8.(1) $? = \frac{16384}{64} + 64$, $? = 256 + 64$, $? = 320$

Q.9.(3) $\frac{150}{125} = ?$, $? = \frac{6}{5}$

Q.10.(2) $? = \sqrt[3]{31 \times 31 \times 31}$, $? = 31$

Q.11.(1) $? = 97673$

Q.12.(4) $480 + (?)^2 = 649$, $(?)^2 = 169$, $? = 13$

Q.13.(3) $? = \frac{14202}{263}$, $? = 54$

Q.14.(1) $\frac{? \times 33}{67} = 990$, $? = \frac{990 \times 67}{33}$, $? = 2010$

Q.15.(2) $\frac{1995}{7} \times \sqrt{?} = 3705$, $\sqrt{?} = \frac{3705 \times 7}{1995}$

$\sqrt{?} = 13$, $? = 169$

Q.16.(1) $? = 65 + 56$, $? = 121$

Q.17.(3) $\frac{230}{100} \times \frac{160}{23} = ?$, $? = 16$

Q.18.(1) $171 \times \frac{7}{72} \times \frac{8}{21} = ?$, $? = \frac{19}{3}$

Q.19.(3) $(8 \times ?)^2 = 9 \times 64$, $8 \times ? = 3 \times 8$, $? = 3$

Q.20.(1) $? = 28132$

Q.21.(3) +24, +24, +24, ----------

Q.22.(5) ×1+1, ×2–1, ×3+1, ×4–1, ---------

Q.23.(3) ×1!, ×2!, ×3!, ×4! --------

Q.24.(2) ×2+1, ×2+1, ×2+1, -------

Q.25.(4) $+2^2, +4^2, +6^2, +8^2$, ---------

Q.26.(3) Total ways $= \frac{6!}{2!} = 360$

Q.27.(1) Let principle be Rs. x

A = P+S.I.

$34400 = x + \frac{18x}{25}$, $34400 = \frac{43x}{25}$

x = Rs. 20,000.

S.I. = 34400–20,000= Rs. 14400

Q.28.(4) Required amount $= \frac{18785}{55}$

= Rs. 340 (Approx.)

Q.29.(4) Required Number $= \frac{135 \times 76}{18} = 570$.

Q.30.(1) A's investment = 25000 ×12

Rs. 3,00,000

B's investment = 20000×7= Rs. 140000

C's investment = 30000×5= Rs. 150000

Ratio = 300000 : 140000 : 150000

= 30 : 14 : 15

B's share in profit $= 76700 \times \frac{14}{59}$

= Rs . 18,200.

Q.31.(3) Let the present age of Veer and Zara be 7x and 9x respectively.

$\frac{7x+4}{9x+4} = \frac{15}{19}$, $x = 8$

Zaara's present age = 9×8 = 72 years

Q.32.(2) Add 1 in product = 11448+1

then, take square root $= \sqrt{107 \times 107}$

∴ Numbers are 106 and 108

Short - Trick

Solve by options

Q.33.(4) $x^2 + 9801 = 20002$

$x = \sqrt{10201}$

$x = 101$

Q.34.(5) 10% = 352 – 264 = 88

∴ 100% = 880

Q.35.(3) Let the existing male and females be 9x and 7x respectively.

$\therefore \frac{9x + 160}{7x + 200} = \frac{61}{55}$, $x = 50$

Required difference = (9×50)–(7×50)

= 100.

Q.36.(5) Let the first even number be x

$\frac{x + (x+2) + (x+4)}{3} + \frac{17 + 19 + 21}{3} = 31$

3x+6 = 12×3

x= 10.

Q.37.(1) Let the length of train be x m

Speed = $75 \times \frac{5}{18} = \frac{125}{6}$ m/sec.

$x = \frac{750}{3}$, $x = 250$

∴ Length of Plateform = 250×2 = 500 m.

Q.38.(2) Let first number be x and second number be y

$\therefore \frac{6x}{11} = \frac{54}{100}y$, $\frac{x}{y} = \frac{99}{100}$

∴ x y = 99 : 100

Q.39.(1) Cost price = $\frac{1428}{120} \times 100$ = Rs. 1190

Original price = $\frac{1190 \times 100}{70}$ = Rs. 1700.

Q.40.(4) Average = $\frac{448}{7} = 64$

Q.41.(1) 1 man complete work in 1 day = $\frac{1}{12 \times 16}$

1 woman complete work in 1 day

$= \frac{1}{16 \times 12}$

∴ 4 men and 8 women can complete work in

$= \frac{4}{12 \times 16} + \frac{8}{16 \times 12} = \frac{3}{48} = 16$ days.

Q.42.(3) Required number = $\frac{2067 \times 81}{53} = 3159$

Q.43.(2) (4 Books + 7 Registers) = 1250

(12 Books + 21 Registers) = 1250×3

= Rs.3750

Q.44.(2) Neelima's monthly Salary

$= \frac{1568 \times 100}{28} = 5600$

Annual salary = Rs. 67,200

Q.45.(1) Speed = $\frac{686}{14}$ = 49 km./hr.

Q.46.(2) Required % = $\frac{160}{149} \times 100$ = 107% (approx.)

Q.47.(3) Chirag = 81+76+84 = 241

Q.48.(3)

Q.49.(1) Chirag

Q.50.(5) Required% = $\frac{158}{133} \times 100$ = 120% (approx.)

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/04

Q.1.(4) ? of 7.5 = 135, ? = $\frac{135}{7.5} = 18$

Q.2.(1) $\frac{216 \times (?)^5}{225} = 3000$, $(?)^5 = 25 \times 125$

$= (5)^5 \times (5)^3 = (5)^5$, ? = 5

Q.3.(3) $\frac{11800 - ?}{79} \times 4 = 512$

11800 – ? = 10112

? = 1688

Q.4.(3) ? = $\frac{1008 \times 7}{4 \times 2646} = \frac{2}{3}$

Q.5.(5) ? = $\frac{54}{0.9} \times \frac{1}{18} = 3\frac{1}{3}$

Q.6.(2) ? = $\frac{\frac{1}{4} \times 16}{\frac{1}{16} \times 4} = \frac{\frac{4}{1}}{\frac{1}{4}} = 16$

Q.7.(2) ? = 54 × 4 = 216

Q.8.(5) ? = 7778 × 12 = 93336

Q.9.(1) ? = 112 ÷ 64 × 25 = 43.75

Q.10.(1) ? = $\frac{199320 \times 7 \times 5}{8305} = 840$

Q.11.(3) ? = $(41 - 6) + \left(\frac{1}{3} + \frac{1}{4} - \frac{1}{12}\right)$

$= 35 + \frac{18}{12} = 36\frac{1}{2}$

Q.12.(4) ? = 8 + 125 + 64 = 197

Q.13.(2) ? = 102.05 - 56.56 = 45.49

Q.14.(2) $2025 + (?)^2 = 2209 + 257$

$(?)^2 = 2466 - 2025 = 441 = (21)^2$

? = 21

Q.15.(3) ? = $\frac{1333}{186} = 7\frac{1}{6}$

Q.16.(5) ? = $\frac{35568}{78} = 456$

Q.17.(2) ? = 648 + 343 = 991

Q.18.(5) ? = 7 × 1.35 × 4.5 = 42.525

Q.19.(4) ? = $\frac{35}{12} \times \frac{121}{19} \times \frac{3}{22} \times \frac{8}{11} = 5$

Q.20.(1) ? = $540 \times \frac{3}{4} \times \frac{7}{5} \times \frac{2}{3} = 27 \times 7 \times 2 = 378$

Q.21.(5) ? = 192 - 32 + 211 = 371

Q.22.(2) 151.2 – 196 = ? – 94

? = 94 – 44.8, ? = 49.2

Q.23.(4) $5+4 - 4\sqrt{5} = ? - 4\sqrt{5}$, ? = 9

Q.24.(3) $(?)^2 = 7 \times 49 - 294 = 49 = (7)^2$

? = - 7

Q.25.(2) ? = 576.03 – 472.31 = 103.72

Q.26.(4) Number of candles = 16×12×39

= 7488

Q.27.(1) Compound Interest =

$= 9560\left(\frac{104}{100} \times \frac{104}{100}\right)$

= Rs. 10,340/- (approx)

Q.28.(5) Population = $198000 \times \frac{92}{100} \times \frac{105}{100}$

= 191268

Q.29.(2) $21 \times \frac{30}{7} = 18 \times ?$

? = 5 days

Q.30.(2) Cost = 92 × 4.5 = Rs. 414

Q.31.(3) Percent marks = $\frac{169 \times 100}{500} = 33.8$

Q.32.(5) Average = 117

Numbers = 113, 115, 117, 119, 121

= 119 + 226 = 345

Q.33.(4) $\frac{x \times \frac{300}{100}}{y \times \frac{500}{100}} = \frac{9}{20}$

4x = 3y

$\frac{x}{y} = \frac{3}{4}$

Q.34.(1) Percent = $\frac{7}{20} \times 100 = 35$

Q.35.(4) Average = $\frac{380}{8} = 47.5$

Q.36.(1) $(?)^{12} \times (?)^{18} = 4096$

$(?)^3 = 4096 = (16)^3$, ? = 16

Q.37.(2) Amount = 416 + 312 = Rs. 728/-

Q.38.(5) Third number = 307 – 225 = 82

Q.39.(3) 3 hours = 180 min.

2 hours 30 = 150 min

2	180, 150
3	90, 75
5	30, 25
	6, 5

= 900 minute

$= \frac{900}{60}$

= 15 hours

= 5 a.m.

Q.40.(3) Total ways = 6!

= 6×5×4×3×2

= 720

Q.41.(3) $\frac{5x+6}{7x+6} = \frac{3}{4}$

x = 6

9 years ago, Rahul's age = 6×5 – 9

= 21 years

Q.42.(5) Quantity of water = $\frac{260 \times 5}{4}$

= 325 litre

Q.43.(5) ? = 95 (approx)

Q.44.(1) ? = $\frac{8263}{14}$

= 590 (approx)

Q.45.(4) ? = 70×4×16

? = 4500

Q.46.(3) – 11, – 13, – 15, – 17, – 19,

Q.47.(1) +5, +10, + 15, + 20, +25

Q.48.(1) $-6^2, -5^2, -4^2, -3^2, -2^2$

Q.49.(4) – 0.5, – 1, – 1.5, – 2, – 2.5

Q.50.(5) ×1.5,.....

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/05

Q.1.(2) $? = (2+2+1) + \left(\frac{1}{6}+\frac{1}{66}+\frac{1}{3}\right) = 5\frac{17}{33}$

Q.2.(4) 35+362+? = 440, ? =43

Q.3.(2) ? = 24.4 – 19.24 = 5.16

Q.4.(5) ? = 15 × 9 = 135

Q.5.(1) $? = \frac{53032}{1325.8} = 40$

Q.6.(3) ? = 381.6 – 232.1 = 149.5

Q.7.(3) ? = 1636.62

Q.8.(5) ? = 147.42 – 26.26 = 121.16

Q.9.(1) $\frac{598}{?} = 239.2$, ? = 2.5

Q.10.(5) $\frac{510000}{?} \times 25 = 2550$, ? = 5000

Q.11.(2) ?=19600

Q.12.(2) $? = \frac{45}{14} = 3\frac{3}{14}$

Q.13.(4) ? = 46.1464

Q.14.(1) $? = \frac{917}{131} = 7$

Q.15.(3) $? = (4)^{\frac{1}{2}} \times \left(\frac{1}{2}\right)^4 = (2^2)^{\frac{1}{2}} \times \left(\frac{1}{2}\right)^4$

$= 2 \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$

Q.16.(5) $? = 9 + \left(\frac{1}{8}+\frac{2}{3}+\frac{3}{4}\right) = 9 + \frac{3+16+18}{24}$

$= 9 + \frac{37}{24} = 10\frac{13}{24}$

Q.17.(5) ? = 2567 + 21 = 2588

Q.18.(1) $361 - ?^3 - 26 + 16 = 324$

$?^3 = 27 = (3)^3$

? = 3

Q.19.(4) ? = 593.43 – 200.04 = 393.39

Q.20.(2) $? = \frac{3973.2}{46.2} = 86$

Q.21.(2) $? \times \frac{51}{7} = 1829 - 452$

$? = \frac{1377 \times 7}{51}$

? = 189

Q.22.(5) ? = 5625 – 75 = 5550

Q.23.(3) $? = \frac{48+42}{1002-912} = \frac{90}{90} = 1$

Q.24.(1) $\frac{\sqrt{?}}{6} \times 4 = 8$

$\sqrt{?} = 12$

? = 144

Q.25.(1) ? = 43×3 = 129

Q.26.(1) 5x + 5 + 9x + 5 + 13x + 5 = 123

27x = 108

x = 4

5 years ago A's age = 5 ×4 = 20 years

A's present age = 25 years

Q.27.(3) Speed = $36 \times \frac{5}{18}$ = 10 m./sec.

Length of train = 10×10 = 100 meter

$10 = \frac{100+200}{x}$

x = 30 seconds

Q.28.(1) Number of bags = $\frac{3556}{127} = 28$

Q.29.(4) a+b+c+d = 240 _____ (I)

$a = \frac{b+c+d}{3}$ _____ (II)

From eq. (I) and (II)

4a = 240

a = 60

Q.30.(2) Percent marks = $\frac{306}{500} \times 100$

= 61.2

Q.31.(3) $5000 = \frac{40000 \times 2 \times r}{100}$

r = 6.25%

Q.32.(5) Reqd. value = 1521 – 343

= 1178

Q.33.(3) 6 × 46 = 23 ×x

x = 6×2 = 12 hours

Q.34.(3) Akhilesh's monthly income = $\frac{3}{5}$ × Ritesh's monthly income= $\frac{3}{5} \times 32000$

= 19200

Annual income = 19200 ×12= ₹ 2.304 lakh

Q.35.(3) Average = $\frac{260}{5} = 52$

Numbers = 48, 50, 52, 54, 56

Sum = 48 + 1568= 1616

Q.36.(2) Sum = $\frac{2}{9} + \frac{8}{19} = \frac{110}{171}$

Q.37.(1) Selling price = $4500 \times \frac{75}{100} \times \frac{120}{100}$

= ₹ 4050/-

Loss = 4500 – 4050= ₹ 450/-

Q.38.(2) Radius of circle = 18 – 7.5= 10.5 cm.

Area of circle = $\frac{22}{7} \times 10.5 \times 10.5$

= 346.5 cm².

Q.39.(5) Required answer = $1200 \times \frac{3}{5} \times \frac{55}{100}$

= 396

Q.40.(2) $(?)^{\frac{4}{5}} \times (?)^{\frac{6}{5}} = 54 \times 24$

$(?)^2 = 1296$

? = 36

Q.41.(3) +9, +27, +45, +63, +81

Q.42.(1) +416, +208, +104, +52, +26

Q.43.(4) ×1.5, ...

Q.44.(5) ? = 15×440= 6600

Q.45.(4) ? = 778 – 446= 330 (approx)

Q.46.(4) Priya's present age = 8+2 = 10 years

Neelam's present age = 10 + 20 = 30 years

After 5 years, Sunil's age = $30 \times \frac{1}{6} + 5$

= 10 years

Q.47.(2) Cost = 7212 × 2.5= ₹ 18030/-

Q.48.(5) Required answer = $216 \times \frac{100}{16} \times \frac{37}{100}$

= 499.5

Q.49.(1) Average = $\frac{2940}{6} = 490$

Q.50.(1) Compound interest

$= 5000 \times \frac{108}{100} \times \frac{108}{100} - 5000$

= ₹ 832/-

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/06

Q.1.(4) $? = \frac{2396}{5} = 479.2$

Q.2.(5) $? = \frac{1255.5}{279} = 4.5$

Q.3.(5) $? = \frac{63}{1.4} = 45$

Q.4.(1) ? = 2709.18

Q.5.(2) ? = 369.96

Q.6.(5) $(8)^? = (8)^6 \times (8)^9 \div (8)^6$, ? = 6+9-6 = 9

Q.7.(3) $? = \frac{5}{6} \times \frac{9}{8} \times \frac{3}{5} = \frac{9}{16}$

Q.8.(1) ? = 11952-9090= 2862

Q.9.(4) ? = 81.789

Q.10.(4) $? = 5555 \times \frac{1}{55} \times \frac{1}{5} = 20.2$

Q.11.(1) $? = \frac{11952-9883}{25} = 168.68$

Q.12.(3) $? = 2 + \left(\frac{2}{5} - \frac{5}{7} + \frac{7}{10}\right) = 2\frac{27}{70}$

Q.13.(2) $? = \frac{14360}{40} = 359$

Q.14.(3) ? = 325 - 141.6= 183.4

Q.15.(2) $\sqrt{?}$ = 48-15= 33

$? = (33)^2$

Q.16.(5) ? = $(11)^3$= 1330 (approx)

Q.17.(4) $? = \frac{58}{86} \Rightarrow \frac{60}{90} = 0.66 = .6$ (approx)

Q.18.(2) ? = 132 + 135= 256 (approx)

Q.19.(3) ? = 23 (approx)

Q.20.(2) ? = 45×45 + 10= 2035

Q.21.(2) ×1,×2,×3,×4,×5,×6

Q.22.(1)÷2,.....

Q.23.(4) (4+7) = 11, (11+7) = 18, ...

Q.24.(3) $7^3, 6^3, 5^3$ .....

Q.25.(5) ×6+1, ×5+2, ×4+3, ×3+4, ×2+5, ×1+6

Q.26.(5) Average = $\frac{4344}{8} = 543$

Q.27.(4) $a^2 = 2lb$

324=2×13.5×b

b = 12

a = 18

difference = 18-12 = 6 cm

Q.28.(3) Distance = 62 × 14 = 868 km.

Speed = $\frac{868+280}{14}$ = 82 km/h.

Q.29.(4) Let the first (A) = x

According to the question -

$25 = \frac{x+x+2+x+4+x+6}{4}$

A = 22

Product = 22 × 26 = 572

Q.30.(1) Percent marks = $\frac{340}{400} \times 100 = 85$

Q.31.(2) Meera's monthly income = Rs 35800

Amla = $\frac{4}{5} \times 35800$ = Rs. 28640

Annual income = 28640 ×12

Rs. = 343680

Q.32.(5) Let the number =A

$A \times \frac{45}{100} + A \times \frac{20}{100} = 4056$

A = 6240

Required answer = $6240 \times \frac{85}{100} = 5304$

Q.33.(2) Time taken by 6 children to complete the work 8×12 = 6 × x

x = 16 days

Time taken by 4 women and 6 children to complete the work = $\frac{1}{16} + \frac{1}{16}$ = 8 days

Q.34.(5) x = 4y .....(i)

2(x+8) = 5 (y+8)

2x -5y = 24 - (ii)

From eq. (i) and (ii)

x(Satish) = 32 years

y (Madhur) = 8 years

Times = $\frac{8}{32}$ =0.25 times

Q.35.(1) Distance = $\frac{180 \times 28}{1000}$ =5.04 km

Q.36.(4) $(?)^{18} \times (?)^{12} = 18 \times 72$

$(?)^3 = 1728$

? = 12

Q.37.(3) $28800 = \frac{22500 \times 8 \times r}{100}$

r = 16%

short cut - $\frac{128}{8}\% = 16\%$

Q.38.(1) Cost price =$7200 \times \frac{100}{80}$ = Rs. 9000

Selling price = $9000 \times \frac{120}{100}$ = Rs. 10800

Q.39.(5) Height = 170 × 4 - 172 ×3= 680 - 516

= 164 cm

Q.40.(1) Total = $\frac{6}{7} + \frac{4}{11} = 1\frac{17}{77}$

Q.41.(2) $22 = 2 \times \frac{22}{7} \times r$

r= 3.5 cm

Area = $\frac{22}{7} \times 3.5 \times 3.5$ = 38.5 sq. cm.

Q.42.(2) $x \times \frac{65}{100} = 684 + x \times \frac{8}{100}$

$x = \frac{684 \times 100}{57} = 1200$

Short cut -

57%= 684

100% = 1200

Q.43.(4) Time = L.C.M.of 8,10, 14 = 2 × 4 × 5 × 7

= 280 sec.= 4 min 40 sec.

Q.44.(2) $2915.4 = P\left[\left(\frac{115}{100}\right)^2 - 1\right]$

$P = \frac{2915.4 \times 400}{129}$ = Rs. 9040

Short cut -

32.25%=2915.4

100% = 9040

Q.45.(5) Speed = $\frac{360}{80}$ = 4.5 m/sec.

Q.46.(1) Speed = $9 \times \frac{5}{18}$ = 2.5 m/sec.

2 (l+b) = 2.5 × (180+36)

l+b = 270 m

l = $\frac{270}{9} \times 5$= 150 m

b = 120 m

Area = 150 × 120= 18000 sq. m.

Q.47.(3) Total ways = $\frac{8!}{3!}$ = 6720

Q.48.(4) Let the numbers of chocoletes = x

$\frac{x}{350} - \frac{x}{400} = 1$, x = 2800

Number of chocoletes got by each children = $\frac{2800}{400}$ = 7

Q.49.(5) Circumference = $3.5 \times \frac{22}{7}$ = 11 cm

Q.50.(3) Total price = $8750 \times \frac{100}{140}$ =Rs. 6250

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/07

Q.1.(3) $\frac{?+102.50}{?} = \frac{441}{400}$

400×? + 102.50 ×400 = 441 × ?

41×? = 41000

? = 1000

Q.2.(5) $?^3 = \frac{31250}{2}$

$?^3 = 15625$

? = 25

Q.3.(1) $1 - \frac{2}{(9-?)} = 3$

$1 - 3 = \frac{2}{9-?}$

– (9 – ?) = 1

– 9 + ? = 1

? = 10

Q.4.(3) $\sqrt{112896} - 224 = ?$

? = 336 – 224

? = 112

Q.5.(4) $\frac{10 \times ?}{11} = \frac{16550 \times 121}{331}$

$\frac{10 \times ?}{11} = 6050$

? = 6655

Q.6.(3) $\frac{242 \times ?}{7} \times \frac{7}{100} = 7.26$

2.42 ×? = 7.26

? = 3

Q.7.(4) $\frac{? \times (1261 - 1200)}{8000} = 152.50$

? = 20000

Q.8.(4) 212.412 – 52.68 = ?

? = 159.732

Q.9.(2) 184.96 + 1.75 = ? + 36.544

186.71 – 36.544 = ?

? = 150.166

Q.10.(1) 15774.16 – 232.6 = ?

? = 15541.56

Q.11.(3) 163.68 × 13.3 = ?

? = 2176.944

Q.12.(4) $? = (3+5-3-1) + \left(\frac{1}{4} + \frac{1}{2} - \frac{2}{3} - \frac{1}{4}\right)$

$? = 4 + \left(-\frac{1}{6}\right)$

$? = 3\frac{5}{6}$

Q.13.(2) $\frac{17}{5} \times \frac{9}{2} - \frac{14}{3} \times \frac{10}{4} + \frac{3}{4} = ?$

$\frac{153}{10} - \frac{140}{12} + \frac{3}{4} = ?$

$? = \frac{918 - 700 + 45}{60}$

$? = \frac{263}{60}$

$? = 4\frac{23}{60}$

Q.14.(4) 126.72 – 23.04 = ?

? = 103.68

Q.15.(2) 17459.16 – 5550.08 = ?

? = 11909.08

Q.16.(4) 7056 + 876 – 542 = ?

? = 7390

Q.17.(4) ? = 2277.735 – 241.11

? = 2036.625

Q.18.(5) 4096 × 324 – 406.4256 = ?

1327104 – 406.4256 = ?

? = 1326697.5744

Q.19.(2) $? = \frac{32.5 \times 36 \times 4 \times 5}{2 \times 3 \times 5}$

? = 780

Q.20.(3) 2.4 + 32.48 – 16.28 = ?

34.88 – 16.28 = ?

? = 18.6

Q.21.(4) $? = \frac{125224.6}{8.6}$

? = 14561

Q.22.(2) $(2 - 13 + 22) + \left(\frac{1}{4} - \frac{4}{5} + \frac{1}{4}\right)$

$11 + \left(-\frac{3}{10}\right) = 10\frac{7}{10}$

Q.23.(1) 4440.8 + 1179 = ? + 2540

5619.8 – 2540 = ?

? = 3079.8

Q.24.(3) $\frac{?}{46} \times 4094 = 50285$

$? = \frac{50285}{89}$

? = 565

Q.25.(1) 96198 – 40858 = ?

? = 55340

Q.26.(3)

```
      67
  6 | 4500
    | 36
127 | 900
    | 889
    | 11
```

To make it a perfect square 11 should be subtracted.

Q.27.(4) Required average = $\frac{3642}{6}$ = 607

Q.28.(2) 71% – 33% = 24852

38% = 24852

56% = $\frac{24852}{38} \times 56$ = 36624

Q.29.(4) $A = 8850\left(1+\frac{12}{100}\right)^2 = 8850 \times \frac{28}{25} \times \frac{28}{25}$

A = Rs. 11101.44

C.I. = Rs. 2251.44

Q.30.(4) The distance covered by the car in 5 hours = 5×73 = 365 km.

The distance covered by the bus = 365 – 50 = 315 km.

The average speed of the bus = $\frac{315}{5}$

= 63 km./hr.

Q.31.(5) $(?)^5 = 8^5$

? = 8

Q.32.(3) Total number of ways = $\frac{7!}{2!2!}$

$= \frac{5040}{2 \times 2}$ = 1260

Q.33.(5) $\frac{15}{19}$

Q.34.(2) Each person got the amount = $\frac{218520}{45}$

= Rs. 4856

Q.35.(3) Population in 2004

$= 400000 \times \frac{120}{100} \times \frac{120}{100} \times \frac{120}{100} = 691200$

Q.36.(2) C.I – S.I. = $\frac{Pr^2}{100^2}$

$32 = \frac{P(8)^2}{(100)^2}$

P = Rs. 5000

Q.37.(4) Let the fraction = $\frac{x}{y}$

$\frac{x + \frac{x \times 100}{100}}{y + \frac{y \times 400}{100}} = \frac{8}{15}$

$\frac{x}{y} = \frac{4}{3}$

Q.38.(4) The value of 5 ratio = Rs. 856560

The value of 14 ratio = $\frac{856560}{5} \times 14$

= Rs. 2398368

Q.39.(3) Total failed students = $\frac{1450 \times 5.8}{100}$ = 841

Q.40.(3) Cost price = $9828 \times \frac{100}{84} \times \frac{100}{120}$ = 9750

Q.41.(4) Average weight = $\frac{468}{6}$ = 78 kg.

Q.42.(4) Ram's annual salary = $\frac{2}{5}$ × Shyam's annual salary

$\frac{360000 \times 5}{2}$ = Shyam's annual salary

Shyam's annual salary = Rs. 900000

Q.43.(2) Total number of days = $\frac{4140}{345}$ = 12 days

Q.44.(1) $m_1d_1 = m_2d_2$

$15 \times 32 = m_2 \times 12$

$m_2 = 40$

Q.45.(4) Number of required bags = $\frac{1404}{117}$ = 12

Q.46.(2) $\times 9 - 9^2, \times 8 - 8^2, \times 7 - 7^2, \times 6 - 6^2$

Q.47.(4) – 3694, – 3694, – 3694,.....

Q.48.(3) $21^3, 23^3, 25^3, 27^3, 29^3$

Q.49.(3) ÷8, ÷ 7, ÷ 6, ÷ 5

Q.50.(1) – 79, – 158, – 237, – 316

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/08

Q.1.(2) ? = 198 - 13 = 185

Q.2.(2) $\frac{8}{5} \times \sqrt{?} = 32$

$\sqrt{?} = 20$

? = 400

Q.3.(5) $? = \sqrt{126 + 56 + 179} = \sqrt{361} = 19$

Q.4.(1) $? = 16^2 \div 32 + 47 = 8 + 47 = 55$

Q.5.(2) $?^2 = 255 \times \frac{1}{17} \times \frac{1}{5} = 3,\ ? = \sqrt{3}$

Q.6.(2) $\frac{?}{8} = 2,\ ? = 16$

Q.7.(5) $\frac{11}{2} \times ? - 18 = 125,\ \frac{11}{2} \times ? = 143$

? = 26

Q.8.(4) ? = 87878 - 15354 = 72524

Q.9.(3) $1 + 5 + 2\sqrt{5} = ? + \sqrt{5 \times 4}$

$6 + 2\sqrt{5} = ? + 2\sqrt{5}$

? = 6

Q.10.(4) $(3)^? = 3^{3.5} \times 3^{4.4} \div 3^3 = 3^{3.5+4.4-3}$

? = 4.9

Q.11.(1) $? = (4+3-1) + \left(\frac{1}{3} + \frac{1}{4} - \frac{1}{12}\right) = 6 + \frac{6}{12}$

$= 6\frac{1}{2}$

Q.12.(5) $? = 214 - 5 \times 5 \times 5 \times \frac{9}{15} = 214 - 75$

= 139

Q.13.(1) ? = 1045 - 123 = 922

Q.14.(3) 72 + 35 = ? - 23

107 = ? - 23

? = 130

Q.15.(3) ? = 5 × 5 × 3 = 75

Q.16.(4) ? = 106.064 - 63.179 = 42.885

Q.17.(1) ? = 135 - 7 × 6 = 135 - 42 = 93

Q.18.(5) $? = \frac{13}{5} \times \frac{30}{13} \times \frac{4}{3} \times \frac{9}{16} = \frac{9}{2} = 4\frac{1}{2}$

Q.19.(1) $? = \frac{108}{5}$ = 21.6

Q.20.(3) ? = 24.51 + 13.09 = 37.60

Q.21.(5) ? = 12 × 14 = 168

Q.22.(3) $(?)^2 = 11 + 121 + 12 = 144$

? = 12

Q.23.(2) ? = 29 × 8 ÷ 5= 46.4

Q.24.(4) ? ÷ 5 = 480 ÷ 4 = 120

? = 120 × 5

= 600

Q.25.(4) $(0.2)^? = (0.2)^{10} \times (0.2)^4 \div (0.2)^6$

$= (0.2)^{10+4-6}$

$= (0.2)^8$

? = 8

Q.26.(2) Ratio = 48 : 5 × 60

= 48 : 300

= 4 : 25

Q.27.(3) ∠ R = 31°

∠ P = 50°

∠ Q = 100°

∠ S = 360° - 300°

∠ Q – ∠ S = 100° – 60°= 40°

Q.28.(3) Required quantity of water = $\frac{905 \times 15}{1000}$

= 13.575 litres

Q.29.(5) Average = $\frac{156}{4}$ = 39

36, 38, 39, 40, 42

Three times of the highest no. = 42 × 3

= 126

Q.30.(4) Total amount = $102 \times 3 + 102 \times \frac{4}{3}$

= 306 + 136

= Rs. 442

Q.31.(4) Time taken by 4 men to complete the work

3 × 18 = 4 × x

$x = \frac{27}{2}$ days

Time taken by 4 children to complete the work.

6 × 18 = 4 × x

= 27 days

Total time = $\frac{2}{27} + \frac{1}{27}$

$= \frac{3}{27} = 9$ days

Q.32.(1) Average marks $= \frac{(41 \times 7 - 14) + 42}{7}$

$= \frac{315}{7}$

$= 45$

Q.33.(1) $x \times \frac{6}{7} = 9 + 225$

$\frac{6x}{7} = 234$

$x = 39 \times 7$

$= 273$

Q.34.(5) S.I. $= \frac{5224 \times 5 \times 5}{100}$

= Rs. 1306

Q.35.(2) Average speed $= 75 \times \frac{60}{100}$

= 45 km/hrs.

Q.36.(3) $+5^2, +10^2, +15^2, +20^2, +25^2$

Q.37.(2) +6, +12, +18, +24, +30

Q.38.(1) -64, -32, -16, -8

Q.39.(5) Percent marks $= \frac{480 + 96}{1200} \times 100$

$= \frac{576}{1200} \times 100$

$= 48$

Q.40.(4) $(?)^2 = 28 \times 7$

$= 196$

$? = 14$

Q.41.(1) $l - b = 7$

$l = b + 7$

Perimeter $= 2(l + b)$

$50 = 2(b+7+b)$

$50 = 14 + 4b$

$4b = 36$

$b = 9$ cm.

$l = 16$ cm.

Area $= 9 \times 16$

= 144 sq. cm.

Q.42.(5) Area $= \frac{1}{2} \times$ base $\times$ height

$81 = \frac{1}{2} \times 9 \times$ height

Height $= \frac{81 \times 2}{9}$

= 18 cm.

Q.43.(2) Side of area $= \sqrt{256}$

$= 16$

Radius $= \frac{16}{2} - 1$

$= 7$

Area $= \frac{22}{7} \times 7 \times 7$

= 154 sq. cm.

Q.44.(3) Cost price $= 6000 \times \frac{100}{75}$

$= 80 \times 100$

= Rs. 8000

Q.45.(5) $x \times 5x = 720$

$x^2 = \frac{720}{5} = 144$

$x = 12$

Q.46.(2) Postal Charge $= \frac{75}{250} \times 1800$

= Rs. 540

Q.47.(1) L.C.M. of 8, 12 and 14

$2 \times 2 \times 2 \times 3 \times 7$

$= 168$

Minimum no. $= 168 + 6$

$= 174$

Q.48.(2) Man = Wife + 8

$4x - 3x = 8$

Man's age $= 8 \times 4$

= 32 years

Wife's age $= 8 \times 3$

= 24 years

Daughter's age $= \frac{24}{8}$

= 3 years

Q.49.(3) No. of tigers $= 720 \times \frac{115}{100}$

$= 828$

Q.50.(4) Amount $= \frac{4601 - 13}{37}$

= Rs. 124

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/09

Q.1.(2) $2033.19 - 11.56 = ?$

$? = 2021.63$

Q.2.(4) $2234.4 + 8.88 - 86.54 = ?$

$? = 2243.28 - 86.54$

$? = 2156.74$

Q.3.(2) $9248 + 5184 - 6561 = ?$

$? = 14432 - 6561$

$? = 7871$

Q.4.(4) $(2)^{12x} \times (2)^{-7x} \div (2)^{-\frac{5x}{2}} = (2)^{?+\left(x-\frac{1}{2}\right)}$

$? + \left(x - \frac{1}{2}\right) = 12x - 7x + \frac{5x}{2}$

$? = 4x + \frac{5x}{2} + \frac{1}{2}$

$? = \frac{13x + 1}{2}$

Q.5.(3) $6364 - 3246 - 346 = ?$

$? = 2772$

Q.6.(3) $? = 582932.25 - 76.50$

$? = 582855.75$

Q.7.(5) $2811.25 + 445.44 - 634.5 = ?$

$? = 3256.69 - 634.5$

$? = 2622.19$

Q.8.(4) $5184 \times 1.2 - 635.87 = ?$

$? = 6220.8 - 635.87$

$? = 5584.93$

Q.9.(2) $? = 190.28 - 57.72$

$? = 132.56$

Q.10.(5) $? = \frac{16 \times 42.25 + 1}{56.25}$

$? = \frac{2708}{165}$

Q.11.(3) $? = 6 + \left(\frac{1}{3} - \frac{9}{7} + \frac{1}{14}\right)$

$? = 6 + \left(-\frac{37}{42}\right)$

$? = 5\frac{5}{42}$

Q.12.(1) $\frac{19}{4} \times \frac{9}{4} - \frac{11}{4} = ?$

$? = 10\frac{11}{16} - 2\frac{3}{4}$

$? = 8 + \left(-\frac{1}{16}\right)$

$? = 7\frac{15}{16}$

Q.13.(2) $3 + \left(\frac{7}{9} + \frac{3}{4} + \frac{4}{5}\right) = ?$

$? = 3 + \frac{419}{180}$

$? = 5\frac{59}{180}$

Q.14.(4) $252 - 221 - 74 + 76.45 = ?$

$? = 33.45$

Q.15.(5) $8455.79 - 346.59 + 67.76 = ?$

$? = 8523.55 - 346.59$

$? = 8176.96$

Q.16.(2) $9348 - 626.2 - 72.5 = ?$

$? = 8649.3$

Q.17.(3) $56 \times 78 = 63 + ?$

$4368 - 63 = ?$

$? = 4305$

Q.18.(2) $\frac{4}{7} \times \frac{8}{17} \times \frac{3}{5} \times 23800 = ?$

$? = 3840$

Q.19.(2) $32.1 \times 7.4 = ?$

$? = 237.54$

Q.20.(4) $74 + 4 \times 82 = ? + 67.25$

$74 + 328 - 67.25 = ?$

$? = 334.75$

Q.21.(5) $763.96 - 36.796 = ?$

$? = 727.164$

Q.22.(2) $\frac{1}{119} \times 29155 = ?$

$? = 245$

Q.23.(5) $? = 7921 - 3481 - 3721$

$? = 719$

Q.24.(4) $\sqrt{0.001156} \times \sqrt{12.6736} = ?$

$? = 0.034 \times 3.56$

$? = 0.12104$

Q.25.(4) $64 + 68 \times 56 + 512 = ?$

$? = 64 + 3808 + 512$

$? = 4384$

Q.26.(2) $x*y = (x+2)^2 \times (y-2)$

$6*5 = (6+2)^2 \times (5-2)$

$= 64 \times 3$

$= 192$

Q.27.(4) $\frac{19}{7} \times x = \frac{97}{21}$

$x = \frac{97}{57}$

Q.28.(4) Let the time taken by B and A is x days and (x–60) respectively.
The ratio of efficiency of A and B is = 1:3
The ratio of time taken by A and B is = 3:1

$\frac{x-60}{x} = \frac{1}{3}$

3x 180 = x
2x = 180
x = 90
A can do in 30 days and B can do in 90 days (A+B)'s work

$= \left(\frac{1}{30} + \frac{1}{90}\right) = \frac{4}{90} = \frac{2}{45}$

Hence both will do the work in $22\frac{1}{2}$ days.

Q.29.(1) Principal = Rs. 800
Amount = Rs. 836

Time = $\frac{3}{4}$ years

Simple interest = Rs. (836 – 800)
= Rs. 36
According to question,

$36 = \frac{800 \times R \times 3}{100 \times 4}$

$\therefore R = \frac{3600 \times 4}{800 \times 3}$

R = 6%

Q.30.(3) Principal = Rs. 1550
Rate = 4%

Time = $3\frac{1}{4}$ years = $\frac{13}{4}$ years

Simple interest = $\frac{1550 \times 4 \times 13}{100 \times 4}$

= Rs. 201.50

Q.31.(4) $2\pi r = 616$

$r = \frac{616 \times 7}{2 \times 22}$

r = 98

Area of circle = $\frac{22}{7} \times 9604$

= 30184 m².

Q.32.(2) Average of two numbers = $\frac{336-250}{2}$

= 43

Q.33.(2) Time = $\frac{400 \times 18}{(65-45)5}$

= 72 sec.
= 1 min 12 sec.

Q.34.(3) Let the remaining work will be completed in x days.
3×6 = 3×2 + 6×x

$\frac{18-6}{6} = x$

x = 2 days

Q.35.(4) $m_1d_1 = m_2d_2$
$12 \times 16 = 4 \times d_2$
$d_2 = 48$

Q.36.(3) Total covered distance = $45 \times \frac{15}{2}$

= 337.5 km.

Q.37.(3) $?^2 = (4.7)^2 \times (2.8)^2$
? = 13.16

Q.38.(1)

```
      73
  7 | 5320
    | 49
143 |  420
    |  429
    |   –9
```

To make the perfect square 9 should be added.

Q.39.(4) Total number of ways = $\frac{8!}{3!} = 6720$

Q.40.(3) Surface area of cube = $6a^2 = 384$

$a^2 = \frac{384}{6} = 64$

a = 8
Volume of cube = $8^3 = 512$ m³.

Q.41.(2) Let the monthly income of Ram = Rs. x

Remainder of income = $x - \frac{2}{5}x$

= Rs. $\frac{3}{5}x$

Amount of other expenses = $\frac{3}{4} \times \frac{3}{5}x$

$= \frac{9}{20}x$

Final balance of saving

$x - \left(\frac{2x}{5} + \frac{9x}{20}\right) = 180$

$x\left(\frac{20-8-9}{20}\right) = 180$

x = Rs. 1200

Q.42.(2) Required value = $\frac{23646}{42} \times 29$

= 16327

Q.43.(2) The quantity of milk in mixture = $729 \times \frac{7}{9}$

= 567 ml.

Quantity of water in mixture = (729 – 567)
= 162 ml.
Let x ml water be added in mixture

$\frac{567}{162+x} = \frac{7}{3}$

1134 +7x = 1701
x = 81ml

Q.44.(4) Each person gets the amount = $\frac{360272}{46}$

= Rs. 7832

Q.45.(3) 876 × 679 = ?
? = 594804

Q.46.(3) $17^2 + 17$, $19^2 + 19$, $21^2 + 21$

Q.47.(2) ×4.5, × 3.5, × 2.5, ×1.5

Q.48.(4) +257, +257, +257, +257

Q.49.(5) 13^3, 14^3, 15^3, 16^3, 17^3

Q.50.(1) ×4+4, ×4+4, ×4+4, ×4+4

EXPLANATION/BCL/ QUANTITATIVE APTITUDE/10

Q.1.(4) 5×? = 2010.5
? = 402.1

Q.2.(1) 14626 - 12080 = ?
? = 2546

Q.3.(3) $\frac{3}{7} \times \frac{14}{9} \times \frac{6}{11} = ?$

$? = \frac{4}{11}$

Q.4.(5) $\sqrt{?} = 51 - 22$

$? = 29^2$

? = 841

Q.5.(2) $? = (2-1+3) + \left(\frac{4}{5} - \frac{3}{8} + \frac{1}{2}\right)$

$? = 4 + \left(\frac{32-15+20}{40}\right)$

$? = 4\frac{37}{40}$

Q.6.(2) $\frac{905 \times 14}{100} + ? = 287$

? = 287 - 126.7
? = 160.3

Q.7.(2) $? = \frac{2073.5}{319}$

?= 6.5

Q.8.(4) $? = \frac{14688}{40}$

? = 367.2

Q.9.(5) $10000 \times \frac{1}{100} \times \frac{1}{10} = ?$

? = 10

Q.10.(1) $(7)^4 \times (7)^8 \div (7)^9 = (7)^?$

$(7)^3 = (7)^?$

? = 3

Q.11.(1) 3823 = ? × 25
? = 152.92

Q.12.(3) $\frac{450 \times 58}{100} - \frac{250 \times ?}{100} = 181$

261 - 2.5 ×? = 181
80 = 2.5 × ?
? = 32

Q.13.(4) $\frac{286 \times 17.7}{100} = ?$

? = 50.622

Q.14.(3) 220.05 × 12.8 = ?

? = 2816.64

Q.15.(5) 525.25 + 52.52 + 5.2 = ?

? = 582.97

Q.16.(5) $13^3 = ?$

? =2197(approx)

Q.17.(5) $50550 \times \frac{1}{50} \times \frac{1}{5} = ?$

? = 202.2 (approx)

Q.18.(4) $? = \frac{49}{75}$

? = 0.7 (approx)

Q.19.(1) 23 ×23+100 = ?

? = 629 (approx)

Q.20.(2) 125+70+105 = ?

? = 300 (approx)

Q.21.(3) ×7, ×6, ×5, ×4, ×3, ×2

Q.22.(3) 3 + 5 = 8

5 +8 = 13

8 + 13 = 21

13 + 21 = 34

21 + 34 = 55

Q.23.(1) ×1+1, ×2+2, ×3+3, ×4+4, ×5+5, ×6+6

Q.24.(4) $3^3, 5^3, 7^3, 9^3, 11^3, 13^3, 15^3$

Q.25.(2) ÷4, ÷4, ÷4, ÷4, ÷4

Q.26.(3) Let the number be x

$\frac{x + x + 2 + x + 4 + x + 6}{4} = 24$

x = 21

23 × 27 = 621

Q.27.(4) Total covered distance = 150 ×21

= 3150 m

= 3.15 km

Q.28.(2) Area of square = 3 × Area of rectangle

Area of rectangle = $\frac{225}{3}$ = 75 cm²

15 × b = 75

b = 5 cm

Side of square = $\sqrt{225}$ = 15 cm

a-b = 15 - 5 = 10 cm.

Q.29.(5) Required average = $\frac{3872}{8}$

= 484

Q.30.(5) Distance covered by truck = 12×70

= 840 km.

Speed of car = $\frac{960}{12}$ = 80 km/h.

Q.31.(1) 55% - 14% = 8610

41% = 8610

85% = $\frac{8610}{41} \times 85$

= 17850

Q.32.(4) $K = \frac{2}{3}S$

Annual income of Kirti = $\frac{2}{3} \times 432000$

= Rs. 288000

Q.33.(5) Let age of Palash = x years

Age of Arnav= $\frac{x}{3}$ years

$(x+7) = 2(\frac{x}{3}+7)$

$x+7 = \frac{2}{3}x+14$

$\frac{x}{3} = 7$

x = 21

Age of Arnav after 14 years = $\frac{21}{3}$ + 14

Age of Palash = 21 years

21+14 = 35 years

So, Palash age is $\frac{5}{3}$ times of Arnav

Q.34.(1) Required % = $\frac{534}{600} \times 100$

= 89%

Q.35.(3) 6W ×10 = 10 C × 15

2W = 5C

(6W + 10 C)×? = 6W×10

10W × ? = 6W ×10

? = 6 days

Q.36.(2) 75% = Rs. 7500

100% = Rs. 10000

125% = $\frac{10000}{100} \times 125$

= Rs. 12500

Q.37.(4) Let the no. of sweets = x

$\frac{x}{405} - \frac{x}{540} = 2$

$\frac{135x}{540 \times 405} = 2$

Each person can get the number of sweets

= $\frac{3240}{540}$

= 6 sweets

Q.38.(5) 130% = 6110

100% = $\frac{6110}{130} \times 100$

= 4700

Q.39.(3) 55% = 520 + 5%

50% = 520

100% = 1040

Q.40.(2) Circumference of circle = 2πr

$= 7.7 \times \frac{22}{7}$

= 24.2 cm

Q.41.(1) Total no. of ways. = $\frac{\lfloor 7}{\lfloor 3}$

= $\frac{5040}{6}$

= 840

Q.42.(4) 16% + 18.56% = 3041.28

34.56% = 3041.28

100% = $\frac{3041.28}{34.56\%} \times 100$

= 8800

Q.43.(3) $162 = \frac{100 \times r \times 9}{100}$

r = 18%

Q.44.(5) Speed = $\frac{420}{70}$

= 6 m/s

Q.45.(1) L.C.M. of 10, 6, 14 = 210 sec.

= 3 minute 30 sec.

Q.46.(2) Let length of rectangle field = 6x m &

Breadth = 5x m

2 (6x+5x) = 660

x =30

l = 180 m

b = 150 m

Area of field = 100× 150 = 27000 m²

Q.47.(5) $\frac{8}{9} + \frac{1}{3} = \frac{11}{9} = 1\frac{2}{9}$

Q.48.(2) $(?)^{27 \div 3} = (14)^3$

? =14

Q.49.(1) Height of fourth girl = (600 - 444)

= 156 cm

Q.50.(3) 2πr = 35.2

$2 \times \frac{22}{7} \times r = 35.2$

r = 5.6 cm.

Area of circle = $\frac{22}{7} \times (5.6)^2$

= 98.56 cm²

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TEST - 1
QUANTITATIVE APTITUDE

Q.1-5. What value will come in place of question mark (?) in the questions given below ?

Q.1. $7\frac{3}{5} - 4\frac{2}{5} + 8\frac{4}{5} = ?$

(1) 17 (2) 12 (3) $12\frac{1}{5}$ (4) $13\frac{2}{5}$ (5) None of these

Q.2. $\frac{1}{7} \times 0.25 \times 140 = ? + 5$

(1) 0 (2) 245 (3) 5 (4) 100 (5) None of these

Q.3. $\frac{16 - 6 \times 2 + 3}{23 - 3 \times 2} = ?$

(1) $\frac{7}{17}$ (2) $\frac{23}{40}$ (3) $\frac{14}{23}$ (4) $\frac{2}{17}$ (5) None of these

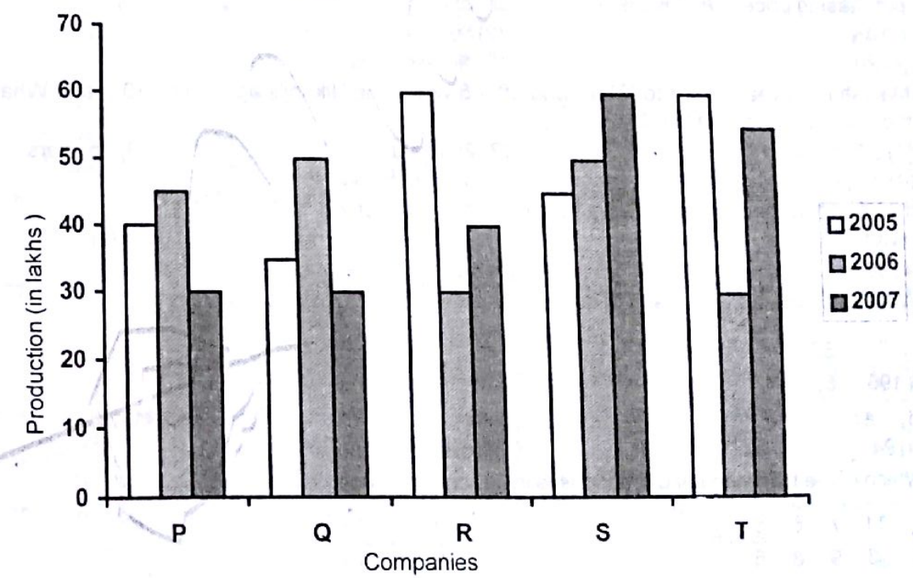
Q.4. $\frac{4}{20} \times \frac{?}{3} \times \frac{18}{30} = 1$

(1) 4 (2) 5 (3) 25 (4) 29 (5) None of these

Q.5. $2^5 + \sqrt{256} + 20 = ?$

(1) 60 (2) 65 (3) 58 (4) 50 (5) None of these

Q.6-10. Read the following graph carefully and answer the questions given below.
Production of bulbs by different companies in three years (In lakhs)



Q.6. The average production of which company was maximum ?

(1) P (2) T (3) R
(4) Q (5) None of these