

Aptitude Test on Number Systems

Total points 43/50 ?

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✓ 1. In a three digit number the digit in the unit's place is twice the digit in the ten's place and 1.5 times the digit in the hundred's place. If the sum of all the three digits of the number is 13, what is the number? 1/1

☐ A. 356

☐ B. 456

☒ C. 436

☐ D. 626

☐ E. 516



✓ 2. In a two digit positive number, the digit at the units place is equal to the square of the digit in ten's place and the difference between the number and the number obtained by interchanging the digits is 54. What is 40% of the original number? 1/1

- ☒ A. 15.6
- ☐ B. 37.2
- ☐ C. 39.4
- ☐ D. 24.8
- ☐ E. None of the Above



✓ 3. If the positions of the digits of a two digit number are interchanged, the number obtained is smaller than the original number by 27. If the digits of the number are in the ratio of 1:2, what is the original number? 1/1

- ☐ A. 16
- ☐ B. 32
- ☒ C. 63
- ☐ D. 48
- ☐ E. Can not be determined



✓ 4. A certain number of two digits is three times the sum of its digits. If $45\frac{1}{1}$ is added to it, the digits are reversed. The number is _____

- ☐ A. 16
- ☐ B. 72
- ☐ C. 63
- ☒ D. 27
- ☐ E. Can not be determined



✓ 5. The number obtained by interchanging the two digits of a two digit number is less than the original number by 27. If the difference between the two digits of the number is 3, then what is the original number? 1/1

- ☐ A. 64
- ☐ B. 72
- ☐ C. 65
- ☐ D. 73
- ☒ E. None of the Above



✓ 6. Two numbers such that the sum of twice the first number and thrice the second number is 100 and the sum of thrice the first number and twice the second number is 120. Which is larger number? 1/1

- ☐ A. 64
- ☐ B. 72
- ☐ C. 65
- ☒ D. 32
- ☐ E. None of the Above



✓ 7. The sum of two even numbers is six more than twice of the smaller number. If the difference between these two numbers is 6, If the larger number lies between 15 to 25 Which is the smaller number? 1/1

- ☐ A. 16
- ☐ B. 6
- ☐ C. 24
- ☒ D. 12
- ☐ E. Can not be determined



✓ 8. A number is divided by 2, 3, 4, 5 or 6, remainder in each case is one. But 1/1 the number is exactly divisible by 7. The number lies between 250 and 350, the sum of digits of the number will be

- ☒ A. 4
- ☐ B. 7
- ☐ C. 6
- ☐ D. 10
- ☐ E. Can not be determined



✓ 9. Sum of three consecutive odd numbers & three consecutive even numbers together is 231. Difference between the smallest odd number and the smallest even number is 11. What is the sum of the largest even number and largest odd number? 1/1

- ☐ A. 71
- ☐ B. 91
- ☐ C. 101
- ☒ D. 81
- ☐ E. Can not be determined



✓ 10. Sum of eight consecutive odd numbers is 656. Average of four consecutive even numbers is 87. What is the sum of the largest even number and largest odd number? 1/1

- ☐ A. 171
- ☐ B. 191
- ☐ C. 101
- ☐ D. 181
- ☒ E. 179



✓ 11. The sum of the digits of a two-digit number is 6. If the digits are reversed, the number is decreased by 36. Find the number? 1/1

- ☐ a) 15
- ☒ b) 51
- ☐ c) 24
- ☐ d) 42
- ☐ e) None of these



✓ 12. If the places of last two-digits of a three digit number are interchanged, a new number greater than the original number by 36 is obtained. What is the difference between the last two digits of that number? 1/1

- ☐ a) 2
- ☐ b) 3
- ☒ c) 4
- ☐ d) 7
- ☐ e) None of these



✓ 13. A number when divided by 837 leaves a remainder of 79. What will be the remainder when the same number is divided by 31? 1/1

- ☐ a) 11
- ☐ b) 13
- ☐ c) 15
- ☒ d) 17
- ☐ e) None of these



✓ 14. The numerator of a rational number is 4 less than the denominator. If $\frac{1}{1}$ the numerator is increased by 15 and denominator is decreased by 4, we get 6. Find the rational number?

- ☐ a) $\frac{1}{5}$
- ☐ b) $\frac{2}{7}$
- ☒ c) $\frac{3}{7}$
- ☐ d) $\frac{5}{9}$
- ☐ e) None of these



✓ 15. When a number is added to 20 percent of the second number, we get $\frac{1}{1}$ 150 percent of the second number. Find the ratio between the first and second number?

- ☐ a) 13:9
- ☐ b) 12:10
- ☒ c) 13:10
- ☐ d) 17:10
- ☐ e) None of these



✗ 16. Two different numbers when divided by same divisor leaves remainder 0/1 7 and 9 respectively. When their sum is divided by the same divisor remainder was 4. Find the divisor?

- ☐ a) 11
- ☐ b) 12
- ☐ c) 13
- ☐ d) 14
- ☐ e) None of these

✗ 17. A number gets reduced to its two-third when 24 is subtracted from it. 0/1 Find one-eighth of the number?

- ☐ a) 7
- ☒ b) 8
- ☐ c) 9
- ☐ d) 10
- ☐ e) None of these

✗

Correct answer

- ☒ c) 9



✗ 18. Three numbers are in the ratio 4:3:5. If the difference between thrice the third number and the sum of first and second number is 64. Find the difference between the first and third number? 0/1

- ☐ a) 4
- ☐ b) 8
- ☒ c) 12
- ☐ d) 16
- ☐ e) None of these

✗

Correct answer

- ☒ b) 8

✗ 19. One-fifth of a number when subtracted from one – third of the number gives 24. Find the square of the number. 0/1

- ☐ a) 32400
- ☒ b) 28900
- ☐ c) 14400
- ☐ d) 36100
- ☐ e) None of these

✗

Correct answer

- ☒ a) 32400



✗ 20. 25% of a number is 2 times 65% of another number. Find the ratio of the second no to the first number? 0/1

- ☒ a) 13:5
- ☐ b) 5:26
- ☐ c) 7:13
- ☐ d) 26:5
- ☐ e) None of these

✗

Correct answer

- ☒ b) 5:26

✓ Q 21 - Which of the following is a prime number?

1/1

- ☐ A - 187
- ☒ B - 811
- ☐ C - 341
- ☐ D - 437

✓

✓ Q 22 - Which of the following is the output of 6894×99 ?

1/1

- ☐ A - 685506
- ☒ B - 682506

✓



☐ C - 683506

☐ D - 684506

✓ Q 23 - Which of the following is the output of 685798×125 ?

1/1

☒ A - 8224750



☐ B - 8225750

☐ C - 8225950

☐ D - 8224760

✓ Q 24 - Which of the following is the output of 43986×625 ?

1/1

☐ A - 27491450

☐ B - 27491350

☒ C - 27491250



☐ D - 27491750

✓ Q25 - Which of the following is the output of $869 \times 738 + 869 \times 262$?

1/1

☐ A - 262000

☐ B - 738000

☐ C - 969000

☒ D - 869000



✓ Q 26 - Which of the following is the output of $936 \times 587 - 936 \times 487$? 1/1

- ☒ A - 93600
- ☐ B - 58700
- ☐ C - 48700
- ☐ D - 100



✓ Q 27 - Which of the following is the output of 1496×1496 ? 1/1

- ☐ A - 3338016
- ☒ B - 2238016
- ☐ C - 2248016
- ☐ D - 2258016



✓ Q 28 - Which of the following is the output of 1607×1607 ? 1/1

- ☐ A - 2581449
- ☐ B - 2583449
- ☒ C - 2582449
- ☐ D - 2584449



✓ Q 29 - Which of the following is the output of $596 \times 596 - 104 \times 104$? 1/1

- ☐ A - 377700
- ☐ B - 366600
- ☐ C - 355500
- ☒ D - 344400



✓ Q 30 - Which of the following is the output of $57 \times 57 + 43 \times 43 + 2 \times 57 \times 43$? 1/1

- ☒ A - 10000
- ☐ B - 5700
- ☐ C - 4300
- ☐ D - 1000



✓ Q 31 - Which of the following is the output of $93 \times 93 + 73 \times 73 - 2 \times 93 \times 73$? 1/1

- ☐ A - 200
- ☒ B - 400
- ☐ C - 300
- ☐ D - 100



✓ Q 32 - Which of the following is the output of $(578 \times 578 \times 578 + 432 \times 432 \times 432) / (578 \times 578 - 578 \times 432 + 432 \times 432)$? 1/1

- ☐ A - 2000
- ☐ B - 4000
- ☐ C - 3000
- ☒ D - 1000



✓ Q 33 - Which of the following is the output of $(141 \times 141 \times 141 - 58 \times 58 \times 58) / (141 \times 141 + 141 \times 58 + 58 \times 58)$? 1/1

- ☒ A - 83
- ☐ B - 100
- ☐ C - 90
- ☐ D - 73



✓ Q 34 - Which of the following is the output of $213 \times 213 + 187 \times 187$? 1/1

- ☐ A - 50338
- ☒ B - 80338
- ☐ C - 90338
- ☐ D - 70338



✓ Q 35 - Which of the following is the output of $((637 + 478)^2 - (637 - 478)^2) / (637 \times 478)$? 1/1

- ☐ A - 4
- ☐ B - 6
- ☒ C - 8
- ☐ D - 24



✓ Q 36 - Which of the following is the output of $((964 + 578)^2 + (964 - 578)^2) / (964 \times 964 + 578 \times 578)$? 1/1

- ☐ A - 4
- ☐ B - 6
- ☐ C - 8
- ☒ D - 2



✓ Q 37 - On dividing a number by 342, 47 is the remainder. What will be remainder if same number is divided by 18? 1/1

- ☒ A - 11
- ☐ B - 6
- ☐ C - 8
- ☐ D - 2



✓ Q 38 - What will be unit digit in $(3157)^{754}$?

1/1

- ☐ A - 8
- ☒ B - 9
- ☐ C - 7
- ☐ D - 6



✓ Q 39 - What will be unit digit in $658 \times 539 \times 436 \times 312$?

1/1

- ☐ A - 8
- ☐ B - 9
- ☒ C - 4
- ☐ D - 6



✓ Q 40 - What will be unit digit in $3^{57} \times 6^{41} \times 7^{63}$?

1/1

- ☐ A - 8
- ☐ B - 9
- ☒ C - 4
- ☐ D - 6



✓ Q 41 - What is the unit digit in $(384)^{1793} \times (1035)^{317} \times (261)^{491}$?

1/1

- ☐ A - 5
- ☐ B - 7
- ☐ C - 1
- ☒ D - 0



✓ Q 42 - The sum of first 25 natural numbers is?

1/1

- ☐ A - 125
- ☒ B - 325
- ☐ C - 20
- ☐ D - 750



✓ Q 43 - If p and q are odd numbers, then which of these is even?

1/1

- ☐ A - pq
- ☒ B - p + q
- ☐ C - pq - 2
- ☐ D - none of these



✓ Q 44 - The sum of all two digit numbers divisible by 7 is?

1/1

- ☐ A - 215
- ☐ B - 535
- ☐ C - 735
- ☒ D - none of these



✗ Q 45 - A number when divided by 296 leaves 75 as remainder. When the same number is divided by 37, the remainder will be? 0/1

- ☐ A - 3
- ☒ B - 0
- ☐ C - 1
- ☐ D - 5



Correct answer

- ☒ C - 1

✗ Q 46 - Which of the following remains if 17200 is divided by 18?

0/1

- ☒ A - 17
- ☐ B - 16
- ☐ C - 1



☐ D - 2

Correct answer

☒ C - 1

✓ Q 47 - $1024 \times 976 = y$. What is y?

1/1

☐ A - 999414

☐ B - 999324

☒ C - 999424



☐ D - 999524

✓ Q 48 - $106 \times 106 + 94 \times 94 = y$. What is y?

1/1

☐ A - 20052

☒ B - 20062



☐ C - 20072

☐ D - 20042

✓ Q 49 - Which of the following will always divide difference between squares of two consecutive even numbers completely?

1/1

☐ A - 3

☒ B - 4



☐ C - 6

☐ D - 7



✓ Q 50 - The product of two numbers is 9375 and quotient is 15. What is the sum of the numbers? 1/1

☐ A - 350

☒ B - 400

☐ C - 450

☐ D - 500



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