Symbiosis SET Numerical Aptitude Sample Paper

1. $(95.6 \times 910.3) \div 92.56256 =?$
(A) 13.14
(B) 12.96
(C) 12.43
(D) 13.34
(E) None of these

2. $(486\% \text{ of } 6500) \div 36 =?$
(A) 867.8
(B) 792.31
(C) 877.5
(D) 799.83
(E) None of these

3. $(12.11)^2 + (?)^2 = 732.2921$
(A) 20.2
(B) 24.2
(C) 23.1
(D) 19.2
(E) None of these

4. $576 \div ? \times 114 = 8208$
(A) 8
(B) 7
(C) 6
(D) 9
(E) None of these

5. $(1024 - 263 - 233) \div (986 - 764 - 156) =?$
(A) 9
(B) 6
(C) 7
(D) 8
(E) None of these

6. $?125 \div 5 \times ? = 6265$
(A) 1253
(B) 1250
(C) 1245
(D) 1550
(E) None of these

7. $(42)^2 \div 6.3 \times 26 =?$
(A) 7182
(B) 7269
(C) 7260

(D) 7240
(E) None of these

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8. $384 \times 12 \times 2 = ?$
(A) 9024
(B) 9216
(C) 6676
(D) 6814
(E) None of these

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9. $6534 \div 40 \div 33 = ?$
(A) 3.06
(B) 5.25
(C) 4.82
(D) 6.12
(E) None of these

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10. $\sqrt{2704} \times \sqrt{2209} = ?$
(A) 1996
(B) 2444
(C) 2452
(D) 1983
(E) None of these

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11. $2536 + 4851 - ? = 3450 + 313$
(A) 3961
(B) 4532
(C) 3624
(D) 4058
(E) None of these

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12. $(2560 \times 1.4) + (7400 \times 0.6) = ?$
(A) 7512
(B) 9746
(C) 6523
(D) 8024
(E) None of these

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13. 36% of 850+?% of 592 = 750
(A) 73
(B) 89
(C) 82
(D) 75
(E) None of these

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14. 64% of 2650 + 40% of 320 = ?
(A) 1824
(B) 1902
(C) 1829

(D) 1964
(E) None of these

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15. $486 + 32 \times 25 - 59 =?$
(A) 514
(B) 528
(C) 599
(D) 507
(E) None of these

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16. $1827 \div 36 \times ? = 162.4$
(A) 4.4
(B) 3.2
(C) 2.1
(D) 3.7
(E) None of these

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17. $1008 \div 36 =?$
(A) 28
(B) 32.5
(C) 36
(D) 22.2
(E) None of these

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18. $56.21 + 2.36 + 5.41 - 21.4 + 1.5 =?$
(A) 40.04
(B) 46.18
(C) 44.08
(D) 43.12
(E) None of these

19. 65% of $320 + ? = 686$
(A) 480
(B) 452
(C) 461
(D) 475
(E) None of these

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20. $83250 \div ? = 74 \times 25$
(A) 50
(B) 45
(C) 40
(D) 55
(E) None of these
21. $\sqrt{7744} =?$
(A) 88
(B) 62
(C) 58
(D) 78
(E) None of these

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22. 35% of ? = 242
(A) 729
(B) 652
(C) 693
(D) 759
(E) None of these

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23. $1256 + 4813 + 765 =?$
(A) 5642
(B) 5876
(C) 6788
(D) 6878
(E) None of these

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24. $22 \times 4 + (?)^2 = (13)^2$
(A) 81
(B) 9
(C) 27
(D) 64
(E) None of these

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25. $432 + 2170 + 35 =?$
(A) 494
(B) 475
(C) 481
(D) 469
(E) None of these

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26. Three numbers are in the ratio of 3 : 4 : 5 respectively. If the sum of the first and third numbers is more than the second number by 52, then which will be the largest number?
(A) 65
(B) 52
(C) 79
(D) 63
(E) None of these

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27. The compound interest on a certain amount for 2 years at the rate of 8% p.a. is Rs.312. What will be the simple interest on the same amount at the same rate and time?
(A) Rs. 349.92
(B) Rs. 300
(C) Rs. 358.92
(D) Rs. 400
(E) None of these

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28. The length of a rectangle exceeds its breadth by 7 cm. If the length is decreased by 4 cm and the breadth is increased by 3 cm, then the area of the new rectangle is the same as the original rectangle. What will be the perimeter of the original rectangle?
(A) 45 cm
(B) 40 cm
(C) 50 cm

(D) 55 cm
(E) None of these

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29. The sum of the digits of a two-digit number is 12. If the number obtained by reversing the digits is greater than the original number by 54, what is the original number?
(A) 28
(B) 48
(C) 39
(D) 93
(E) None of these

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30. In a fraction, twice the numerator is two more than the denominator. If 3 is added to both numerator and denominator, the fraction becomes $\frac{2}{3}$. What was the original fraction?
(A) $\frac{5}{18}$
(B) $\frac{6}{13}$
(C) $\frac{13}{6}$
(D) $\frac{7}{12}$
(E) None of these

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31. Four-fifth of a number is 10 more than two-third of the same number. What is the number?
(A) 70
(B) 75
(C) 69
(D) 85
(E) None of these

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32. A shopkeeper purchased 200 bulbs for Rs.10 each. However, 5 bulbs were fused and had to be thrown away. The remaining were sold at Rs.12 each. What is the percentage profit?
(A) 25
(B) 15
(C) 13
(D) 17
(E) None of these

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33. What should come in place of the question mark in the number series?
$25, 34, 52, 79, 115, ?$
(A) 160
(B) 140
(C) 153
(D) 190
(E) None of these

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34. What number should replace both the question marks?
$\frac{?}{144} = \frac{49}{?}$
(A) 95
(B) 76
(C) 82
(D) 84
(E) None of these

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35. The sum of three consecutive even numbers is 252. What is the sum of the smallest and largest numbers?
(A) 158
(B) 148
(C) 168
(D) 198
(E) None of these

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36. Ajay spends 25% of his salary on house rent, 5% on food, 15% on travel, 10% on clothes and saves the remaining Rs.27,000. What is his income?
(A) Rs. 60,000
(B) Rs. 80,500
(C) Rs. 60,700
(D) Rs. 70,500
(E) None of these

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37. In how many different ways can the letters of the word **CRISIS** be arranged?
(A) 150
(B) 240
(C) 120
(D) 200
(E) None of these

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38. At each corner of a square park with side 40 m, there is a flower bed in the form of a sector of radius 14 m. What is the area of the remaining part of the park?
(A) 984 sq. m
(B) 789 sq. m
(C) 1014 sq. m
(D) 1024 sq. m
(E) None of these

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39. The length of a rectangular field is thrice its breadth. If the cost of cultivating the field at Rs.367.20 per square meter is Rs.27,540, what is the perimeter of the rectangle?
(A) 47 m
(B) 39 m
(C) 52 m
(D) 40 m
(E) None of these

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40. If the fractions $\frac{8}{5}, \frac{7}{2}, \frac{9}{5}, \frac{5}{4}, \frac{4}{5}$ are arranged in descending order, which one will be fourth?
(A) $\frac{4}{5}$
(B) $\frac{5}{4}$
(C) $\frac{9}{5}$
(D) $\frac{8}{5}$
(E) $\frac{7}{2}$

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41. The present ages of Chetna and Shikha are in the ratio of 5 : 7 respectively. After 7 years, their ages will be in the ratio of 11 : 14 respectively. What is the difference between their ages?
(A) 9 years
(B) 4 years
(C) 5 years
(D) 7 years

(E) None of these

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42. If 13 men can complete a piece of work in 36 days, then in how many days will 18 men complete the same work?
(A) 16 days
(B) 20 days
(C) 26 days
(D) 30 days
(E) None of these

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43. If the area of a circle is 75.44 square cm, then what is the circumference of the circle?
(A) 29.2 cm
(B) 28.9 cm
(C) 30.8 cm
(D) 40.2 cm
(E) None of these

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44. Girish started a business investing Rs. 45,000. After 3 months, Vijay joined him with a capital of Rs. 60,000. After another 6 months, Ankush joined them with a capital of Rs. 90,000. At the end of the year they made a profit of Rs. 16,500. What is Girish's share of profit?
(A) Rs. 5,500
(B) Rs. 6,000
(C) Rs. 6,600
(D) Rs. 5,900
(E) None of these

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45. What is the average age of a family of five members whose ages are 42, 49, 56, 63 and 35 years respectively?
(A) 60 years
(B) 49 years
(C) 45 years
(D) 58 years
(E) None of these

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46. A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. There is a leakage at the bottom which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both taps take to fill the tank?
(A) 8 minutes
(B) 7 minutes
(C) 10 minutes
(D) 15 minutes
(E) None of these

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47. What is 50% of 40% of Rs. 3,450?
(A) Rs. 690
(B) Rs. 520
(C) Rs. 517.5
(D) Rs. 499.2
(E) None of these

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48. If an amount of Rs. 5,86,700 is distributed equally amongst 25 persons, then how much would each person

get?
(A) Rs. 2,54,876
(B) Rs. 23,468
(C) Rs. 37,420
(D) Rs. 19,562
(E) None of these

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49. An urn contains 9 blue, 7 white and 4 black balls. If 2 balls are drawn at random, what is the probability that only one ball is white?
(A) $\frac{71}{190}$
(B) $\frac{121}{190}$
(C) $\frac{91}{190}$
(D) $\frac{93}{190}$
(E) None of these

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50. If the price of 5 transistors and 2 pen stands is Rs. 810, what will be the price of 7 transistors and 9 pen stands?
(A) Rs. 1,320
(B) Rs. 1,500
(C) Rs. 1,150
(D) Cannot be determined
(E) None of these

Answer Key

1-D	2-C	3-B	4-A	5-D
6-A	7-E	8-B	9-E	10-B
11-C	12-D	13-D	14-A	15-B
16-B	17-A	18-C	19-E	20-B
21-A	22-C	23-E	24-B	25-A
26-A	27-B	28-C	29-C	30-D
31-B	32-D	33-A	34-D	35-C
36-A	37-E	38-A	39-D	40-B
41-E	42-C	43-C	44-A	45-B
46-A	47-A	48-B	49-E	50-D