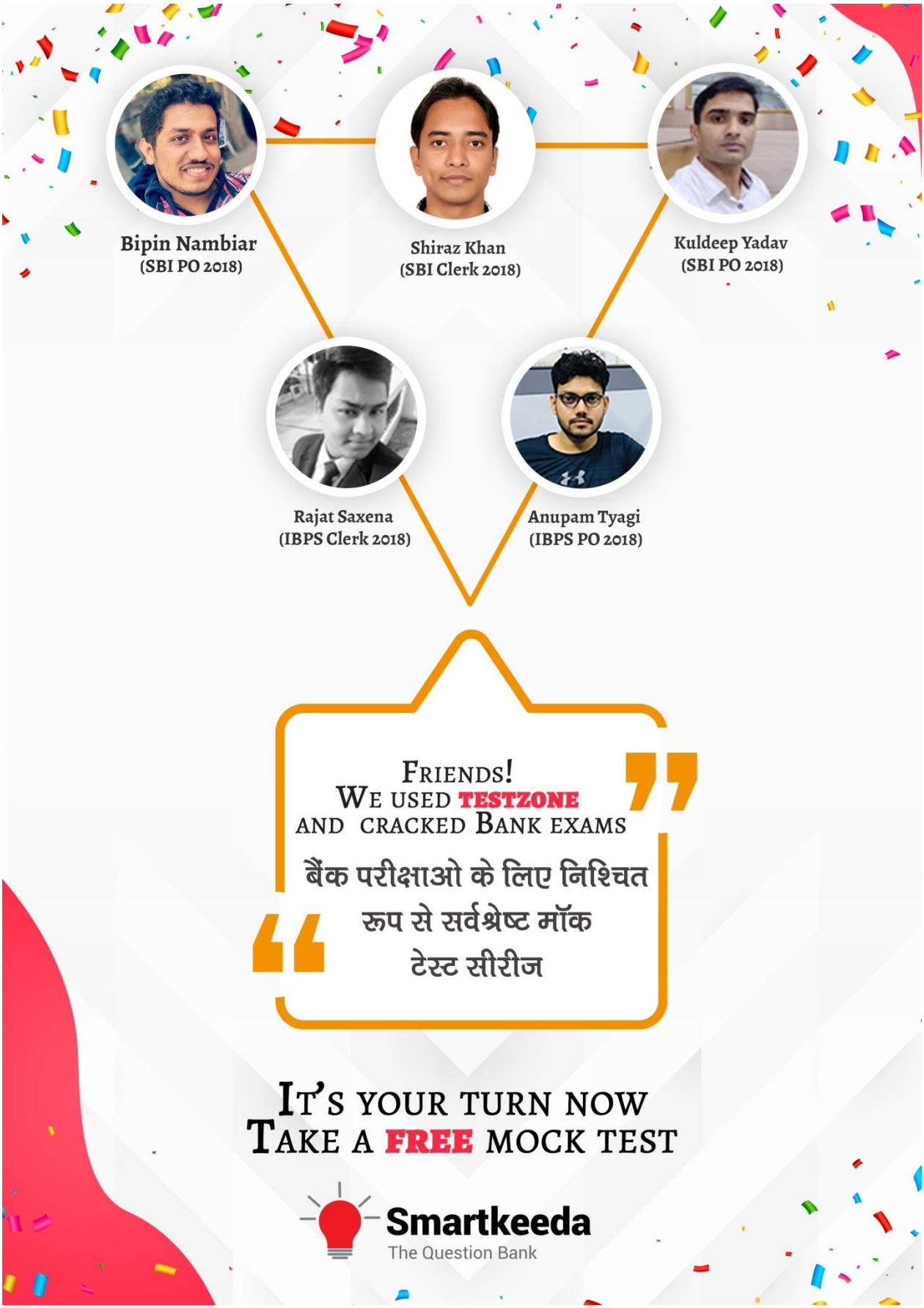
Bipin Nambiar
(SBI PO 2018)
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The Question Bank

Simplification questions for IBPS Clerk Pre, SBI Clerk Pre and IBPS RRB.

Directions: What value should come in place of question mark.

1. $[(288)^2 \div 24 \times 36] \div 18 = \sqrt{?}$

A. 6912 B. 3456 C. 216 D. 6912^2 E. None of these

2. $1454 + 2365 + 9710 + 3020 = ?$

A. 20718 B. 18121 C. 16549 D. 14226 E. None of these

3. 67.5% of 960 + ?% of 640 = 728

A. 12.5 B. 25 C. 12 D. 11 E. None of these

4. $19 \div \left[1 - \frac{1}{2} + 2\frac{2}{3}\right] = ?$

A. $\frac{1}{6}$ B. 6 C. $\frac{1}{2}$ D. $\frac{1}{19}$ E. None of these

5. $(\sqrt{8} \times \sqrt{8})^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

A. 7 B. 19 C. 18 D. 9 E. None of these

6. $2\frac{1}{3}\%$ of 1500 + {32% of 1450 + $\sqrt{1066 - 15\% \ 280} \div (68 - 72)$} = ?

A. 499 B. 480 C. 491 D. 490 E. None of these

7. $7428 \times \frac{3}{4} \times \frac{2}{9} \times ? = 619$

A. 0.5 B. 1.5 C. 0.2 D. 2.4 E. None of these

8. $(4 + 3\sqrt{2})^2 - (3 + 2\sqrt{2})^2 = ?$

A. 24 + 12√2 B. 24 + 10 √2 C. 23 + 12 √2 D. 23 + 10 √2 E. None of these

9. 632323 + 454545 – 757575 – 157866 = ?

A. 187548 B. 174578 C. 171427 D. 172787 E. None of these

10. $3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

A. 3084.5 B. 3125.5 C. 3245.5 D. 3081.5 E. None of these

11. $23 \times 17 + 427 - 52\% \text{ of } 1450 = ?^2$

A. 64 B. 58 C. 8 D. 16 E. None of these

12. $62\% \text{ of } 16850 + 32\% \text{ of } 7345 = 52\% \text{ of } 645 + ?$

A. 10328 B. 12462 C. 10358 D. 10748 E. 12360

13. $\frac{3}{5} \text{ of } 3245 + 32\% \text{ of } 6250 - (?)^2 = 103$

A. 64 B. 62 C. 58 D. 57 E. None of these

14. $23568 + 33852 + 17183 - 52549 = ?$

A. 20084 B. 22184 C. 21084 D. 22084 E. None of these

15. $\left(\frac{3}{9}\right) \text{ of } 3267 + 72\% \text{ of } 6350 = (?)^2 - 580$

A. 54 B. 92 C. 27 D. 79 E. None of these

16. $\sqrt{1345 - 256} + \sqrt{3845 - 364} = ?$

A. 90 B. 93 C. 97 D. 92 E. None of these

17. $(0.9)^2 \times 15 + 2.64 = ? - 532 \div 28$

A. 33.79 B. 32.79 C. 33.69 D. 32.69 E. None of these

18. $4\frac{2}{10} + 2\frac{6}{3} - 6\frac{2}{8} = ?$

A. $2\frac{111}{110}$ B. $2\frac{120}{110}$ C. $1\frac{120}{114}$ D. $1\frac{114}{120}$ E. None of these

19. $4\frac{1}{6} \div 2\frac{1}{2} - 1.25 - 3\frac{1}{4} + 3.5 = ?$

A. $\frac{3}{2}$ B. $\frac{4}{3}$ C. $\frac{2}{3}$ D. $\frac{5}{3}$ E. None of these

20. $? \% \text{ of } (17895.35 - 16764.10) = 10^2 + 9^2$

A. 15 B. 12 C. 16 D. 18 E. 20

21. $5376 \div 24 \times 13 - 703 = ?^2$

A. 57 B. 47 C. 53 D. 43 E. None of these

22. $4\frac{5}{7} \times 4\frac{2}{3} + ? = 35\%$ of 158

A. 23.3 B. 33.3 C. 31.3 D. 19.3 E. None of these

23. 12473 – 1016 – 10137 + 21477 = ? + 8573

A. 15124 B. 14224 C. 14624 D. 14424 E. None of ttese

24. $(0.4)^3 \times 400 \div 4000$ of $(0.4)^2 = ?$

A. $\frac{1}{100}$ B. $\frac{1}{50}$ C. $\frac{1}{25}$ D. 1 E. None of these

25. 185% of 500 – 46% of 1650 = 4 × ?

A. 42.5 B. 35.5 C. 53.5 D. 41.5 E. None of these

26. 165% of 400 + 85% of 240 = ?% of 1080

A. 70 B. 90 C. 80 D. 110 E. 100

27. 24473 – 12016 – 11037 + 22477 = ? + 9473

A. 14136 B. 14424 C. 14760 D. 18342 E. 14572

28. $123 \times 8697 \div 223 = ?^2 + 36$

A. 67 B. 72 C. 85 D. 69 E. 83

29. $13 \times ? \times 6 = 47^2 - \sqrt{625}$

A. 32 B. 28 C. 36 D. 38 E. None of these

30. $\frac{882}{9} - 7 \times 13 + \sqrt[3]{2197} = ?$

A. 20 B. 24 C. 27 D. 31 E. None of these

31. $7\frac{2}{3} + 9\frac{7}{12} + 11\frac{3}{4} - 6\frac{1}{2} = ?$

A. $25\frac{3}{5}$ B. $22\frac{1}{2}$ C. $23\frac{3}{4}$ D. $22\frac{3}{5}$ E. None of these

32. $25^{6.5} \times 25^{12.25} = 25^{21-?}$

A. 2.20 B. 2.25 C. 2.5 D. 3 E. None of these

33. $1332 \div 36 \times 23 + 287 - 189 = ?$

A. 1029 B. 988 C. 850 D. 949 E. None of these

34. 0.8% of 2580 + 16% of 685 = ?

A. 125.76 B. 120.76 C. 130.24 D. 124.76 E. None of these

35. $(153 \times 1331) \div (11 \times 17) = ?$

A. 948 B. 1089 C. 1153 D. 1249 E. None of these

36. $\sqrt{1849} + \sqrt{529} - \sqrt{1521} = ?$

A. 34 B. 27 C. 36 D. 26 E. None of these

37. $9845 - 3746 + 5483 = 7416 + ?$

A. 3614 B. 4166 C. 2876 D. 3776 E. None of these

38. $\frac{5}{13}$ of 1456 of $\frac{2}{7}$ of $\frac{136}{17} = ?$

A. 1140 B. 1280 C. 1320 D. 1210 E. None of these

39. $4.8 \times 4.5 \times 3.6 \times 50 = ?$

A. 2888 B. 3688 C. 3888 D. 3288 E. None of these

40. $13^3 + 21^2 - 19^3 + 5360 = ?$

A. 1240 B. 1139 C. 1332 D. 1129 E. None of these

41. $(\sqrt{7} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{14})^2 = (?)^3 - 28$

A. √2 B. 4 C. √6 D. 3 E. None of these

42. 64% of $\sqrt{409600} \div 1.6 = ? \times 2.56$

A. √10 B. 256 C. √160 D. 100 E. None of these

43. 38.4% of $1450 + 78.2\%$ of $240 - ?^2 = 20\%$ of 77.4

A. √17 B. 19 C. 27 D. 81 E. None of these

44. $(2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3 = (1.7)^{?-3}$

A. √4 B. 6 C. 2 D. 5 E. None of these

45. $\sqrt[3]{5.832}$ + 35% of 6500 – ?% of 1250 = 222.8

A. 164.32 B. 18.23 C. 174.32 D. 194.23 E. None of these

46. $13\frac{9}{7}$ % of 2835 + 25% of 3248 = 1117 + ?

A. 110 B. 100 C. 132 D. 50 E. None of these

47. $\sqrt{32+\sqrt{13+\sqrt{5+\sqrt{16}}}}$ = ?

A. 3√2 B. 7 C. 4√3 D. 6 E. None of these

48. $(0.0036)^{1/2} + (0.0169)^{1/2}$ = ? + 0.03

A. 0.16 B. 0.12 C. 0.14 D. 0.26 E. None of these

49. 25% of $\sqrt[3]{328509}$ + 75% of $\sqrt[3]{79507}$ = ?

A. 49.5 B. 36.5 C. 39.5 D. 41.5 E. None of these

50. $33^2 + 34^2 + 35 + 36^2 - 39^2$ = ?

A. 2025 B. 2055 C. 3025 D. 3155 E. None of these

Correct Answers:

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

Explanations:

1. $[(288)^2 \div 24 \times 36] \div 18 = \sqrt{?}$

$\sqrt{?} = [(288)^2 \div 24 \times 36] \div 18$

$\sqrt{?} = [82944 \div 24 \times 36] \div 18$

$\sqrt{?} = 6912$

$? = 6912^2$

Hence, option D is correct.

2. $1454 + 2365 + 9710 + 3020 = ?$

$? = 1454 + 2365 + 9710 + 3020$

$? = 16549$

Hence, option C is correct.

3. 67.5% of 960 + ?% of 640 = 728

$\frac{67.5}{100} \times 960 + \frac{?}{100} \times 640 = 728$

$648 + \frac{?}{100} \times 640 = 728$

$\frac{?}{100} \times 640 = 728 - 648$

$\frac{?}{100} \times 640 = 80$

$? = 80 \times \frac{100}{640}$

$? = 12.5$

Hence, option A is correct.

4.

$19 \div [1 - \frac{1}{2} + 2\frac{2}{3}] = ?$

$? = 19 \div [1 - \frac{1}{2} + 2\frac{2}{3}]$

$? = 19 \div [3 - \frac{1}{2} + \frac{2}{3}]$

$? = 19 \div [3 - \frac{3}{6} + \frac{4}{6}]$

$? = 19 \div [3 + \frac{1}{6}]$

$? = 19 \div [\frac{19}{6}]$

$? = 19 \times [\frac{6}{19}]$

$? = 6$

Hence, option B is correct.

5. $(\sqrt{8} \times \sqrt{8})^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

$(8)^{1/2} + 9^{1/2} = ?^3 + \sqrt{8} - 340$

$9^{1/2} = ?^3 + \sqrt{8} - 340 - (8)^{1/2}$

$3 = ?^3 + - 340$

$?^3 = 340 + 3 = 343$

$? = 7$

Hence, option A is correct.

6. $2\frac{1}{3}\%$ of $1500 + \{320$ of $1450 + \sqrt{1066 - 15\% \ 280} \div (68 - 72)\} = ?$

$\frac{7}{3} \times \frac{1}{100} \times 1500 + \left\{\frac{32}{100} \times 1450 + \sqrt{1066 - (280 * \frac{15}{100})} \div (-4)\right\} = ?$

$35 + \{464 + \sqrt{1066 - 42} \div (-4)\} = ?$

$? = 35 + \{464 + \sqrt{1024} \div (-4)\}$

$? = 35 + \{464 - 32 \times \frac{1}{(4)}\}$

$? = 35 + (464 - 8)$

$? = 35 + 456 = 491$

Hence, option C is correct.

7.

$7428 \times \frac{3}{4} \times \frac{2}{9} \times ? = 619$

$7428 \times \frac{1}{2} \times \frac{1}{3} \times ? = 619$

$3714 \times \frac{1}{3} \times ? = 619$

$1238 \times ? = 619$

$? = \frac{619}{1238} = 0.5$

Hence, option A is correct.

8. $(4 + 3\sqrt{2})^2 - (3 + 2\sqrt{2})^2$

$? = (16 + 18 + 24\sqrt{2}) - (9 + 8 + 12\sqrt{2})$

$? = (34 + 24\sqrt{2}) - (17 + 12\sqrt{2})$

$? = 34 + 24\sqrt{2} - 17 - 12\sqrt{2}$

$? = 17 + 12\sqrt{2}$

Hence, option E is correct.

9. $632323 + 454545 - 757575 - 157866 = ?$

? = 1086868 – 915441

? = 171427

Hence, option C is correct.

10.

$\Rightarrow 3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

$\Rightarrow \frac{213}{67} \times \frac{4221}{71} \times \frac{114}{7} + \frac{7}{2} = ?$

$\Rightarrow 3078 + 3.5 = ?$

$\Rightarrow ? = 3081.5$

Hence, option D is correct.

11. $23 \times 17 + 427 - 52\%$ of $1450 = ?^2$

$?^2 = 391 + 427 - 754$

$?^2 = 391 + 427 - 754$

$?^2 = 64$

$? = 8$

Hence, option C is correct.

12. 62% of 16850 + 32% of 7345 = 52% of 645 + ?

10447 + 2350.40 = 335.40 + ?

? = 12462

Hence, option B is correct.

13. $1947 + 2000 - 103 = (?)^2$

$3947 - 103 = (?)^2$

$3844 = (?)^2$

$? = 62$

Hence, option B is correct.

14. $74603 - 52549 = 22054$

Hence, option E is correct.

15.

$\left(\frac{3}{9}\right)$ of 3267 + 72% of 6350 + 580 = $(?)^2$

$1089 + 4572 + 580 = (?)^2$

$(?)^2 = 6241$

$? = \sqrt{6241} = 79$

Hence, option D is correct.

16. $\sqrt{1089} + \sqrt{3481} = ?$

$? = 33 + 59 = 92$

Hence, option D is correct.

17. $(0.9)^2 \times 15 + 2.64 = ? - 532 \div 28$

$0.81 \times 15 + 2.64 = ? - 19$

$12.15 + 2.64 = ? - 19$

$? = 33.79$

Hence, option A is correct.

18.

$4\frac{2}{10} + 2\frac{6}{3} - 6\frac{2}{8} = ?$

$? = (4 + 2 - 6) + \frac{2}{10} + \frac{6}{3} - \frac{2}{8}$

$? = 0 + \frac{(24 + 240 - 30)}{120}$

$? = 0 + \frac{234}{120}$

$? = 1\frac{114}{120}$

Hence, option D is correct.

19.

$4\frac{1}{6} \div 2\frac{1}{2} - 1.25 - 3\frac{1}{4} + 3.5 = ?$

$? = \frac{25}{6} \div \frac{5}{2} - 1.25 - \frac{13}{4} + 3.5$

$? = \frac{25}{6} \times \frac{2}{5} - 1.25 - 3.25 + 3.5$

$? = \frac{5}{3} - 1.25 - 3.25 + 3.5$

$? = \frac{5}{3} - 4.5 + 3.5$

$? = \frac{5}{3} - 1 = \frac{2}{3}$

Hence, option C is correct.

20. ? % of $(17895.35 - 16764.10) = 10^2 + 9^2$

?% of 1131.25 = 181

$? = \frac{18100}{1131.25} = 16$

Hence, option C is correct.

21. $?^2 = 5376 \div 24 \times 13 - 703$

$?^2 = 224 \times 13 - 703$

$?^2 = 2912 - 703 = 2209$

$? = \sqrt{2209} = 47$

Hence, option B is correct.

22.

$4\frac{5}{7} \times 4\frac{2}{3} + ? = 35\% \text{ of } 158$

$\frac{33}{7} \times \frac{14}{3} + ? = \frac{35}{100} \times 158$

$22 + ? = 55.3$

$? = 55.3 - 22 = 33.3$

Hence, option B is correct.

23. $12473 - 1016 - 10137 + 21477 = ? + 8573$

or, $? = 12473 - 1016 - 10137 + 21477 - 8573$

or, $? = 14224$

Hence, option B is correct.

24. $? = (0.4)^3 \times 400 \div 4000 \text{ of } (0.4)^2$

Applying the BODMAS, we get $= (0.4)^3 \times 400 \div (4000 \times 0.4 \times 0.4)$

$= \frac{0.4 \times 0.4 \times 0.4 \times 400}{4000 \times 0.4 \times 0.4}$

$= \frac{4 \times 4 \times 4 \times 400}{4000 \times 4 \times 4 \times 10}$

$= \frac{4}{100} = \frac{2}{50} = \frac{1}{25}$

Hence, option C is correct.

25. 185% of 500 – 46% of 1650 = 4 × ?

⇒ 185% of 500 – 46% of 1650 = 4 × ?

⇒ (925 – 759) = 4 × ?

⇒ 166 = 4 × ?

⇒ ? = 41.5

Hence, option D is correct.

26.

$$400 \times \frac{165}{100} + \frac{85}{100} \times 240 = \frac{?}{100} \times 1080$$

or, 4 × 165 + 85 × 2.4 = 10.8 × ?

or, 660 + 204 = 10.8 × ?

$$\therefore ? = \frac{864 \times 10}{108} = 80$$

Hence, option C is correct.

27. 24473 – 12016 – 11037 + 22477 = ? + 9473

? = 24473 – 12016 – 11037 + 22477 – 9473

? = 46950 – 32526

? = 14424

Hence, option B is correct.

28. 123 × 8697 ÷ 223 = $?^2$ + 36

$$?^2 = 123 \times \frac{8697}{223} - 36$$

$?^2$ = 4797 – 36 = 3481

$\therefore ? = \sqrt{4761} = \sqrt{69 \times 69} = 69$

Hence, option D is correct.

29. $13 \times ? \times 6 = 47^2 - \sqrt{625}$

or, $78 \times ? = 2209 - 25$

or, $? = 2184 \div 78$

or, $? = 28$

Hence, option B is correct.

30. $\frac{882}{9} - 7 \times 13 + \sqrt[3]{2197} = ?$

$? = 98 - 91 + 13$

$? = 20$

Hence, option A is correct.

31. $7\frac{2}{3} + 9\frac{7}{12} + 11\frac{3}{4} - 6\frac{1}{2} = ?$

$? = (7 + 9 + 11 - 6) + \left(\frac{2}{3} + \frac{7}{12} + \frac{3}{4} - \frac{1}{2}\right)$

$? = 21 + \frac{8 + 7 + 9 - 6}{12} = 21 + \frac{18}{12}$

$? = 21 + \frac{3}{2} = 22 + \frac{1}{2} = 22\frac{1}{2}$

Hence, option B is correct.

32. As the base on both the sides LHS and RHS are equal, we can compare the indices.

$6.5 + 12.25 = 21 - x$

$18.75 = 21 - x$

Therefore, $x = 21 - 18.75$

$\Rightarrow 2.25$

Hence, option B is correct.

33. $1332 \div 36 \times 23 + 287 - 189 = ?$

$\Rightarrow \frac{1332}{36} \times 23 + 287 - 189$

$= 851 + 287 - 189 = 1138 - 189 = 949$

Hence, option D is correct.

34. 0.8% of 2580 + 16% of 685 = ?

$? = \frac{8}{10 \times 100} \times 2580 + \frac{16}{100} \times 685$

$= 20.64 + 109.6 = 130.24$

Hence, option C is correct.

35. $(153 \times 1331) \div (11 \times 17) = ?$

$? = \frac{153 \times 1331}{11 \times 17} = 9 \times 121 = 1089$

Hence, option B is correct.

36. $\sqrt{1849} + \sqrt{529} - \sqrt{1521} = ?$

$? = 43 + 23 - 39 = 27$

Hence, option B is correct.

37. $9845 - 3746 + 5483 = 7416 + ?$

$? = 9845 - 3746 + 5483 - 7416$

$? = 4166$

Hence, option B is correct.

38.

$\frac{5}{13}$ of 1456 of $\frac{2}{7}$ of $\frac{136}{17}$ = ?

$? = \frac{5}{13} \times 1456 \times \frac{2}{7} \times \frac{136}{17}$

$? = 5 \times 16 \times 2 \times 8$

or, ? = 1280

Hence, option B is correct.

39. $4.8 \times 4.5 \times \times 3.6 \times 50 = ?$

$\Rightarrow ? = 4.8 \times 4.5 \times 3.6 \times 50 = 3888$

Hence, option C is correct.

40. $13^3 + 21^2 - 19^3 + 5360 = ?$

or, ? = 2197 + 441 – 6859 + 5360

or, ? = 1139

Hence, option B is correct answer.

41. $(\sqrt{7} - \sqrt{10})^2 + (\sqrt{5} + \sqrt{14})^2 = (?)^3 - 28$

$(?)^3 = 7 + 10 - 2\sqrt{70} + 5 + 14 + 2\sqrt{70} + 28$

$(?)^3 = 36 + 28 = 64$

$\therefore ? = \sqrt[3]{64} = 4$

Hence, option B is correct.

42. 64% of $\sqrt{409600} \div 1.6 = ? \times 2.56$

$? \times 2.56 = 64\%$ of $640 \div 1.6$

$? \times 2.56 = \frac{64 \times 640}{100} \div 1.6 = \frac{64 \times 640}{100 \times 1.6} = 256$

$\therefore \quad ? = \frac{256}{2.56} = 100$

Hence, option D is correct.

43. 38.4% of $1450 + 78.2\%$ of $240 - ?^2 = 20\%$ of 77.4

or, $?^2 = 38.4\%$ of $1450 + 78.2\%$ of $240 - 20\%$ of 77.4

or, $?^2 = 556.8 + 187.68 - 15.48$

$= 744.48 - 15.48 = 729$

$\therefore ? = \sqrt{729} = 27$

Hence, option C is correct.

44. $(2.89)^4 \div (4913 \div 1000)^3 \times (0.17 \times 10)^3 = (1.7)^{?-3}$

or, $(1.7)^8 \div (1.7)^{3\times3} \times (1.7)^3 = (1.7)^{?-3}$

or, $(1.7)^8 \div (1.7)^9 \times (1.7)^3 = (1.7)^{?-3}$

or, $(1.7)^{8-9+3} = (1.7)^{?-3}$

or, $(1.7)^2 = (1.7)^{?-3}$

$\therefore \quad ? - 3 = 2$

or, $? = 3 + 2 = 5$

Hence, option D is correct.

45. $\sqrt[3]{5.832}$ + 35% of 6500 – ?% of 1250 = 222.8

or, 1.8 + 2275 – ? × 12.5 = 222.8

or, ? × 12.5 = 2276.8 – 222.8

or, ? = $\frac{2054}{12.5}$ = 164.32

Hence, option A is correct.

46.

$13\frac{9}{7}$% of 2835 + 25% of 3248 = 1117 + ?

∴ $\frac{100}{7}$% of 2835 + $\frac{1}{4}$ × 3248 = 1117 + ?

= $\frac{100}{700}$ × 2835 + 812 = 1117 + ?

⇒ 405 + 812 = 1117 + ?

∴ ? = 1217 – 1117 = 100

Hence, option B is correct.

47. $\sqrt{32+\sqrt{13+\sqrt{5+\sqrt{16}}}}$ = ?

⇒ ? = $\sqrt{32+\sqrt{13+\sqrt{5+4}}}$

⇒ ? = $\sqrt{32+\sqrt{13+\sqrt{9}}}$

⇒ ? = $\sqrt{32+\sqrt{13+3}}$

⇒ ? = $\sqrt{32+\sqrt{16}}$

⇒ ? = $\sqrt{32+4}$

⇒ ? = $\sqrt{36}$

⇒ ? = 6

Hence, option D is correct.

48. $(0.0036)^{1/2} + (0.0169)^{1/2} = ? + 0.03$

$\Rightarrow ? + 0.03 = 0.06 + 0.13$

$\Rightarrow ? = 0.19 - 0.03 = 0.16$

Hence, option B is correct.

49. 25% of $\sqrt[3]{328509}$ + 75% of $\sqrt[3]{79507}$ = ?

? = 25% of 69 + 75% of 43

? = 17.25 + 32.25 = 49.5

Hence, option A is correct.

50. $33^2 + 34^2 + 35 + 36^2 - 39^2 = ?$

? = 1089 + 1156 + 35 + 1296 – 1521

? = 2055

Hence, option B is correct.