Deadline: 22-06-21 by EOD Answers should by marked

SIMPLIFICATIONS:

Assignment 01(100 Q)

To Increase Calculation Speed

(Please go through speed math's)

- 1. Vedic Math's (session on app)
- 2. How to multiply faster (session on app)
 - 2.1. 2*2 multiplication (session on app)
 - 2.2. 3*3 multiplication (session on app)
 - 2.3. 3*2 multiplication (session on app)
- 3.Cube Root (session on app)
- 4. Square Root (session on app)

Simplification:

Directions: What value should come in place of Question mark (?) in the following question?

1.
$$784 \div 14 + 598 \div 13 + ? = 99\%$$
 of 2500

A. 2475 B. 2373

C. 2285

D. 2565

E. None of these

2.
$$221 \div 13 \times \sqrt{576} + 10^2 = ?$$

A. 628

B. 428

C. 408

D. 508

E. None of these

3.
$$15^2 + 12^2 = 11^2 + ?$$

A. 258

B. 248

C. 262

D. 282

E. None of these

A. 64

B. 16

C. 32

D. 16

E. None of these

5.
$$18\frac{1}{3}$$
 of 18 + 19 $\frac{1}{4}$ of 28 = 5.5 ×?

A. 198

C. 158

D. 136

E. None of these

6.
$$3^{-2} + 22\frac{2}{9}\%$$
 of 364 = ?

A. 243

C. 105

D. 81

E. None of these

7.
$$\sqrt{1024} \times (\frac{1}{2^{-5}}) + 8^2 \times 4 = ? \times 2^6$$

A. 12

C. 6

D. 36

E. None of these

8.
$$3\frac{2}{3} \times 4\frac{1}{5} \times \frac{3^{\frac{1}{2}}}{2\frac{1}{5}} = ?$$

A. 54.2

C. 22.4

D. 44.8

E. None of these

9.
$$15^2 + 17^2 - ? = 21^2$$

A. - 63

B. – 53

C. 53

D. 73

E. None of these

10.
$$0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$$

A. 128.1 B. 71.9

C. 52.7

D. 107.9

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11. 9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^{?} \times 35 \times 8
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A. 6

B. 9

C. 3

D. 1.5

E. None of these

12.
$$0.005 \times 10^5 \times 33 - ? = (60)^2$$

A. 13500

B. 1230

C. – 1950

D. 12900

E. None of these

13.
$$\frac{3}{5}$$
 of $\frac{4}{7}$ of $\frac{2}{3}$ of 875 ÷ 5⁻¹ = ?

A. 1500 B. 200

C. 1000

D. 40

E. None of these

14.
$$11 \times ? \times 19 = 19^3 - 37 \times 95$$

A. 24

B. 8

C. 22

D. 16

E. None of these

15.
$$15 \times 15 \times 15 + 45^2 = 3^2 \times ?$$

A. 1800

B. 200

C. 600

D. 900

E. None of these

16.
$$5\frac{1}{3}$$
 of $5 + 373\frac{1}{3}$ of $1 + ? = 5 \times 4$

A. 200

B. - 200

C. 0

D. - 400

E. None of these

17.
$$333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$$

A. 848

B. 743

C. 924

D. 683

E. None of these

18.
$$5^{1}$$
 $\frac{1}{5}$ % of 3000 + 6 $\frac{1}{3}$ % of 3000 = ?

A. 35600 B. 3800 C. 346

D. 848

E. None of these

19. 56% of 2400 – 82% of 6000 = ? – 32% of 1800

A. -2400 B. - 3000 C. 2400

D. 3000

E. None of these

20.
$$16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3}$$
?

A. 9

B. 7

C. 8

D. 3

E. 10

21.
$$\frac{1}{6}$$
 of 355 of $\frac{1}{5}$ of 2160 + $\sqrt{3969}$ – 448.98 = ?

A. 25424.02 B. 18436.02

C. 26834.02

D. 25174.02

22. ? =
$$\frac{1224}{1220} \times \frac{220}{120} \div \frac{340}{120}$$

A. 316 B. 324 C. 336 D. 354 E. 386



23. If X = 10, Y = 7, then

$$\frac{(X-Y)^4-18}{7} \times \frac{9XY}{10Y^2-6XY} = ?$$

A. 44

B. 113

C. 66

D. 81

E. 69

24. $3990 \div 57 + \sqrt{361} + \sqrt{324} = ?^2 \times 535 \div 729 \times 5$

A. 6.2

B. 4.5

C. 5.6

D. 6.4

E. None of these

 $[(2211 \div 67)^2 - 21 \times \sqrt{256} + \div (549 - 213) = ? \div 1344]$ 25.

A. 3052

B. 3012

C. 3042

D. 3062

E. 3032

26. $784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div \sqrt{8100} \times 3 = ?$

A. 66.64 B. 76.54

C. 56.64

D. 72.64

E. 76.46

27. $?^2$ % of 11.11% of 256 × 1872 ÷ 2704 = 81

A. 9.75

B. 10.50

C. 11.25

D. 12.75

E. None of these

28. $3\frac{4}{7}$ ÷ [(62% of 620 × 7) ÷ 2401] = ?

A. 25/61 B. $(35/62) \times \sqrt{10}$ C. $(32/75) \times \sqrt{10}$

D. 52/83

E. None of these

 $(6561 \times 117) \div 108 \times \sqrt{36} = 3^{?+4} \div 216^{1/3} \times 39$ 29.

A. 10

B. 6

C. 4

D. 8

E. 2

30. $137 \div (512^{1/3} \div \sqrt{1225})^{*}2 + 3(17 \div 68)] = ?547310$

A. 65

B. 45

C. 74

D. 84

E. None of these

31. $(2^{12}-3^9)\times(3^6-9^3)+11^2=?$

A. 12251

B. 17781 C. 91641

D. 72361

E. None of these

32. $(37.5 \times 22 \times 48) \div 2^4 - ? = (11)^3$

A. 1234

B. 1144

C. 1284

D. 1384 E. 1674

33. $(47 + 47 + 47 + 47 + 47 + 47) \times 5 \times (47 + 47) \times 6 \div (47 \times 2) = 47 \times ?$

A. 47 × 180 B. 47 × 90 C. 90 D. None of these E. 124

34.
$$2\sqrt{3} \times 3\sqrt{8} \times 2\sqrt{27} \times 2\sqrt{2} = 2^4 \times ?$$

A. 18

B. 54

C. 9

D. 27

E. None of these

35.
$$17^2 + 19^2 + ? = 21^2 + 15^2$$

A. – 16

B. 0

C. 32

D. 36

E. 16

36.
$$\frac{1}{1\times 6} + \frac{1}{6\times 11} + \frac{1}{11\times 16} + \frac{1}{16\times 21} = ?$$

20

A. $\frac{}{21}$ B. $\frac{}{42}$

D. $\frac{1}{21}$

E. None of these

37.
$$(5175 \div 23)^{1/2} + (72 \times 2)^{1/2} = (?)^{1/2}$$

A. 26

B. 29

C. 729

D. 841

E. None of these

38.
$$641.23 - 228.48 - 124.21 = ?$$

A. 378.54 B. 278.54 C. 288.54

D. 298.54

E. None of these

39.
$$\frac{\sqrt{3}+1}{\sqrt{3}-1} \times 20^2 - 3^{1/2} \times 2^2 \times 10^2 = (?) \times 10^2$$

A. 30

C. 90

D. 120

E. None of these

40.
$$\sqrt{15} + \sqrt{?} = 3^{3/2}$$

A. 12

B. 13

C. 169

D. 144

E. None of these

41. 61% of 550 – ?% of 250 = 35

A. 32

B. 28

C. 37

D. 44

E. None of these

42.
$$5 \times ? = 735 \div 3$$

A. 39

C. 43

D. 49

E. 53

43.
$$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$$

C. $1\frac{9}{27}$

D. 2 $\frac{2}{27}$

E. None of these

44. 19% of 250 + ? =
$$2^7$$

A. 85.5

B. 75.5

C. 80.5

D. 70.5

45. $(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^7$

A. 36

B. 39

C. 37

D. 41

E. 43

46. 50% of
$$(13\frac{1}{10} + 11\frac{1}{10}) = ?$$

A. 16.2

B. 20.1

C. 12.1

D. 6.50

E. None of these

47.
$$\sqrt{729} \div 45 \times 720 + ? = 30^2$$

A. 512

C. 528

D. 498

E. None of these

48. 9
$$\frac{3}{8} \times 7$$
 $\frac{3}{5} \times ? = 15^2$

A. $2\frac{2}{19}$ B. $4\frac{6}{19}$

C. $4\frac{1}{19}$

D. $3\frac{3}{19}$

E. None of these

49. 600% of
$$\sqrt{\frac{180 \times 81}{5}} \times 12 \div 3^{-1} = ?^2$$

A. 108

B. 72

C. 144

E. None of these

50.
$$16\frac{2}{3}\%$$
 of $(2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$

A. 10.7

B. 107

C. 126

D. 119

Correct Answers:

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

Explanations:

1.
$$784 \div 14 + 598 \div 13 + ? = 99\% \text{ of } 2500$$

$$\frac{784}{14} + \frac{598}{13} + ? = 99 \times \frac{2500}{100}$$

$$? = 2475 - 102 = 2373$$

Hence, option B is correct.

2.
$$221 \div 13 \times \sqrt{576} + 10^2 = ?$$

$$221 \div 13 \times \sqrt{576} + 100$$

$$? = 17 \times 24 + 100$$

Hence, option D is correct.

3.
$$15^2 + 12^2 = 11^2 + ?$$

$$225 + 144 - 121 = ?$$

$$? = 248$$

Hence, option B is correct.

4.
$$6 \times 6 \times 6 \times 6 \times 6 + 6 \times 6 \times 6 \times 6 = 81 \times 3.5 \times ?$$

$$6^4 (6 + 1) = 81 \times 3.5 \times ?$$

$$2^4 \times 3^4 \times 7 = 3^4 \times \frac{7}{2} \times ?$$

$$? = 2^5 = 32$$

Hence, option C is correct.

5.

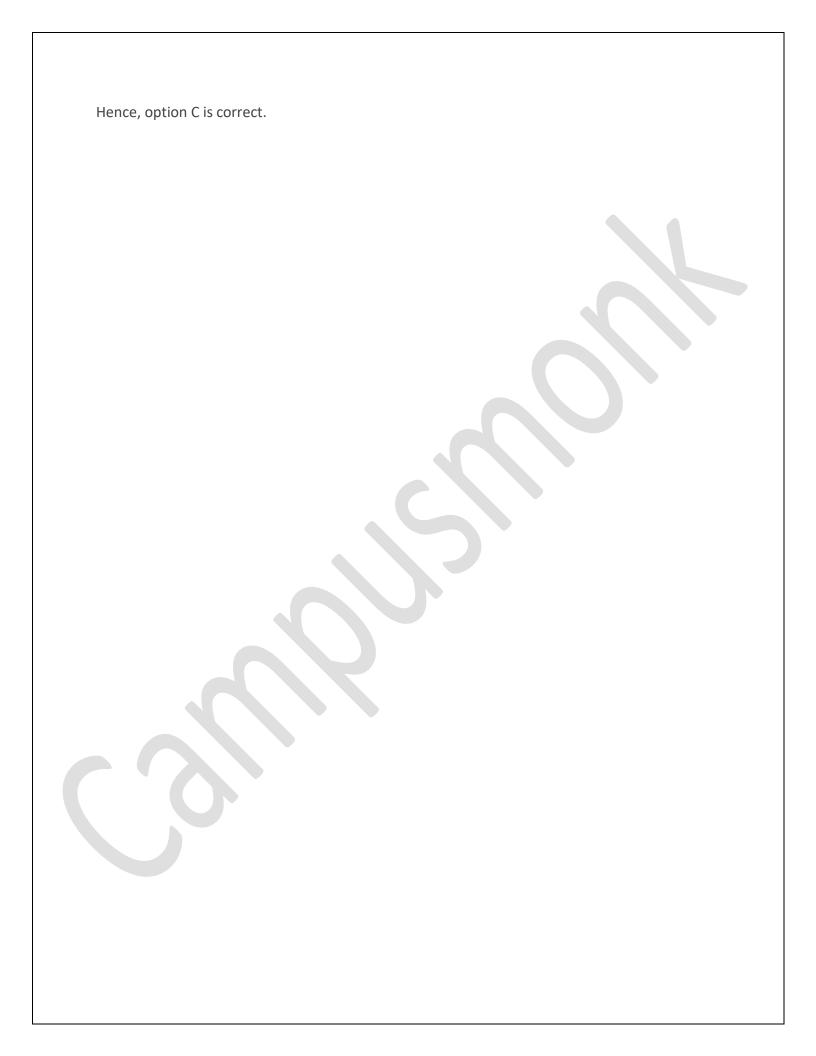
$$18\frac{1}{3}$$
 of $18 + 19\frac{1}{4}$ of $28 = 5.5 \times ?$

$$\frac{55}{3}$$
 of 18 + $\frac{77}{4}$ of 28 = 5.5 × ?

$$55 \times 6 + 77 \times 7 = 5.5 \times ?$$

$$11(30 + 49) = 5.5 \times ?$$

$$? = 79 \times 2 = 158$$



$$\Rightarrow \frac{\sqrt{1024 + (16 \times 13)}}{\sqrt{576}} - 4 + \frac{3}{7} \times 1092 = ?$$

$$\Rightarrow \frac{32 + 208}{24} - 4 + 3 \times 156 = ?$$

$$\Rightarrow 10 - 4 + 468 = ?$$

$$\Rightarrow ? = 474$$

7.

$$3^{-2} + 22\frac{2}{9}\% \text{ of } 364 = ?$$

$$\frac{1}{9} + \frac{200}{9}\% \text{ of } 364 = ?$$

$$\frac{1}{9} + \frac{728}{9} = ?$$

$$\frac{729}{9} = 81 = ?$$

? = 81

Hence, option D is correct.

8. $\sqrt{1024} \times \left(\frac{1}{2^{-5}}\right) + 8^2 \times 4 = ? \times 2^6$

$$32 \times 2^5 + 2^6 \times 2^2 = ? \times 2^6$$

$$2^6 (16 + 4) = ? \times 2^6$$

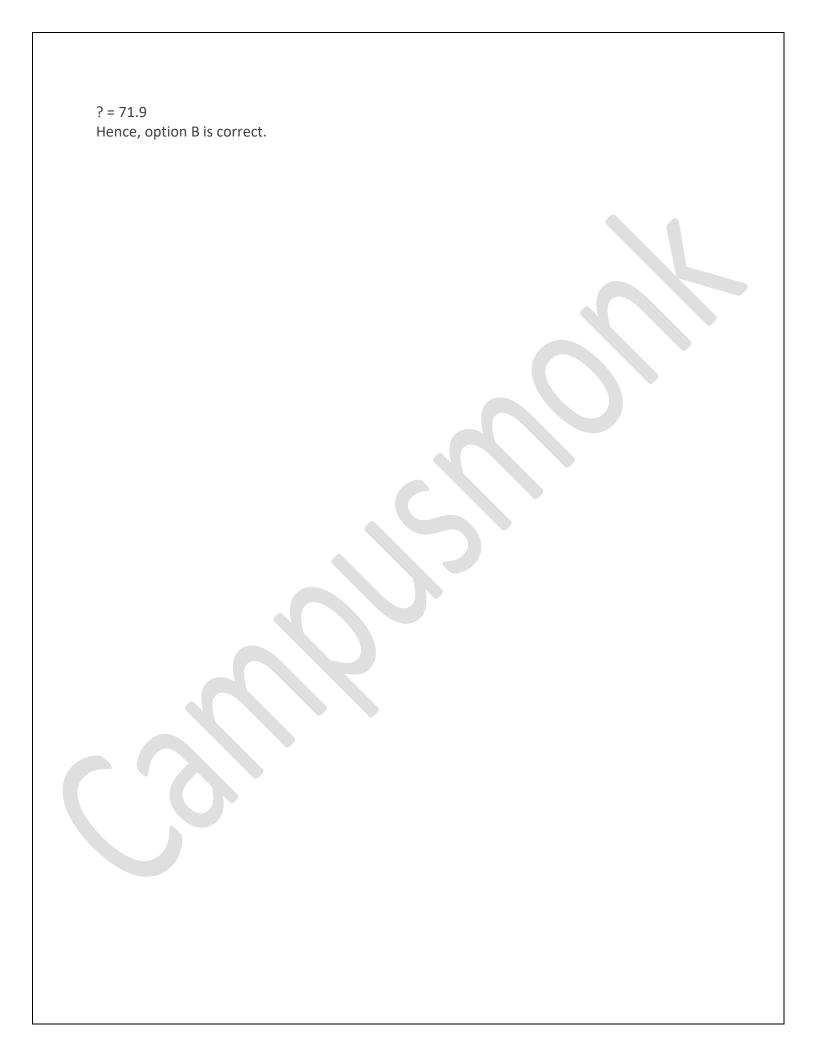
Hence, option E is correct.

9.
$$15^2 + 17^2 - ? = 21^2$$

$$? = 514 - 441 = 73$$

10.
$$0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$$

? =
$$\frac{1}{2}$$
 × 8.4 + $\frac{7}{2}$ × 12.2 + $\frac{1}{4}$ × 100



11.
$$9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^{?} \times 35 \times 8$$

$$729 + 216 = (1.5)^{?} \times 35 \times 8$$

$$945 = (1.5)^{?} \times 35 \times 8$$

$$(\frac{27}{8}) = (\frac{3}{2})^{?}$$

$$(\frac{3}{2})^3 = (\frac{3}{2})^2$$

12.
$$0.005 \times 10^5 \times 33 - ? = (60)^2$$

$$500 \times 33 - ? = 3600$$

$$? = 16500 - 3600 = 12900$$

Hence, option D is correct.

13.
$$\frac{3}{5}$$
 of $\frac{4}{7}$ of $\frac{2}{3}$ of 875 ÷ 5⁻¹ = ?

$$? = 25 \times 4 \times 2 \times 5$$

Hence, option C is correct.

14.
$$11 \times ? \times 19 = 19^3 - 37 \times 95$$

$$11 \times ? \times 19 = 19 (19^2 - 37 \times 5)$$

$$11 \times ? = 361 - 185 = 176$$

$$? = \frac{176}{11} = 16$$

15.
$$15 \times 15 \times 15 + 45^2 = 3^2 \times ?$$

$$9 \times 25 (15 + 9) = 9 \times ?$$

$$? = 25 \times 24 = 600$$

16.
$$5\frac{1}{3}$$
 of 5 + 373 $\frac{1}{3}$ of 1 + ? = $5^2 \times 4^2$

$$\frac{16}{3}$$
 of 5 + $\frac{1120}{3}$ of 1 – 400=?

$$\left(\frac{1200}{3}\right) - 400 = 0 = ?$$

Hence, option C is correct.

17.
$$333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$$

$$18 + 5^4 + 100 = ?$$

Hence, option B is correct.

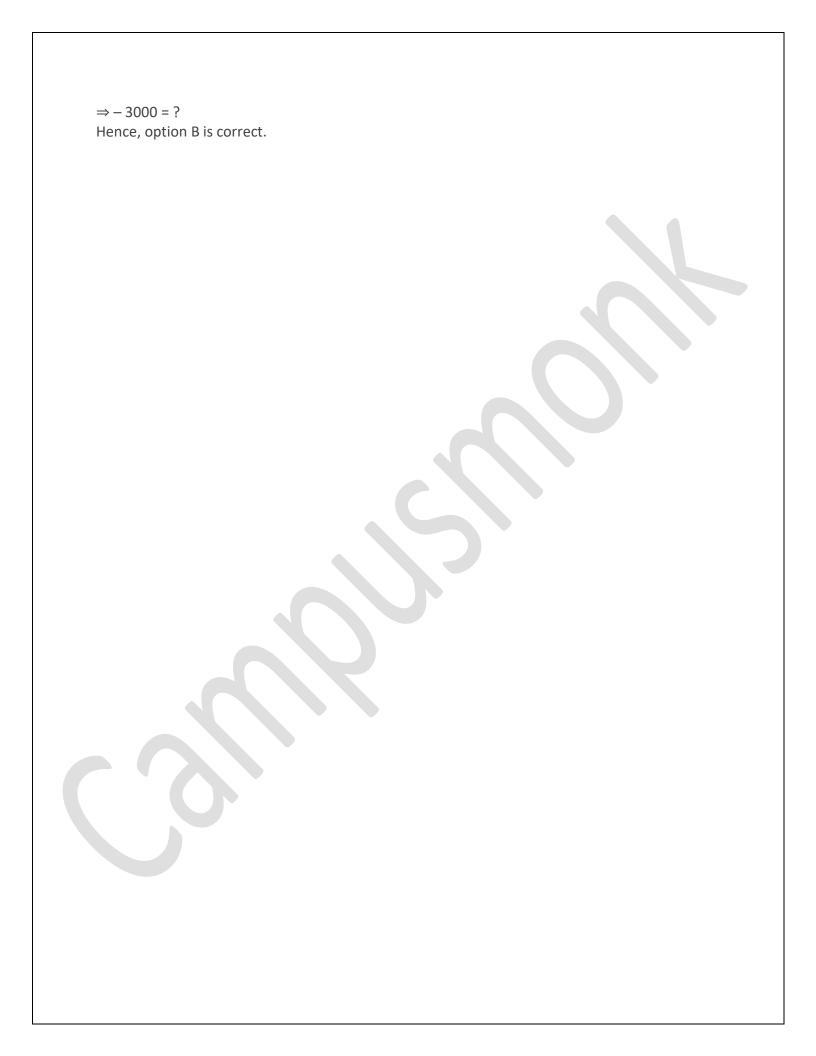
$$5\frac{1}{5}\%$$
 of 3000 + $6\frac{1}{3}\%$ of 3000 = ?

$$\frac{26}{500} \times 3000 + \frac{19}{300} \times 3000 = ?$$

$$? = 26 \times 6 + 19 \times 10$$

19.
$$56\%$$
 of $2400 - 82\%$ of $6000 = ? - 32\%$ of 1800

$$\Rightarrow$$
 1344 - 4920 + 576 = ?



20.
$$\Rightarrow 16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3+?}$$

$$\Rightarrow 2^{4 \times 4.5} \times 2^{2 \times 6.3} \times 2^{3 \times 2.1} \div 2^{9.2} \times 2^{5 \times 0.64} = 2^{[3 \times 2.3 + 3?]}$$

$$\Rightarrow 2^{18} \times 2^{12.6} \times 2^{6.3} \div 2^{9.2} \times 2^{3.2} = 2^{(6.9+3?)}$$

$$\Rightarrow 2^{(18+12.6+6.3-9.2+3.2)} = 2^{(6.9+3?)}$$

$$\Rightarrow$$
 18 + 12.6 + 6.3 - 9.2 + 3.2 = 6.9 + 3?

$$\Rightarrow$$
 30.9 = 6.9 + 3?

$$\Rightarrow$$
 24 = 3?

21.
$$\frac{1}{6}$$
 of 355 of $\frac{1}{5}$ of 2160 + $\sqrt{3969}$ - 448.98 = ?

$$\Rightarrow$$
 71 × 360 + 63 – 448.98 = ?

$$\Rightarrow$$
 25560 + 63 - 448.98 = ?

Hence, option D is correct.

22. ? =
$$\frac{1224}{44} \times \frac{220}{23} \div \frac{340}{414}$$

$$\Rightarrow ? = \frac{\frac{1224}{44} \times \frac{220}{23}}{\frac{340}{414}}$$

$$\Rightarrow ? = \frac{1224}{44} \times \frac{220}{23} \times \frac{414}{340}$$

$$\Rightarrow ? = \frac{36}{2} \times 18$$

23.
$$\Rightarrow \frac{(X-Y)^4-18}{7} \times \frac{9XY}{10Y^2-6XY} = ?$$

$$\Rightarrow \frac{81 - 18}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$$

$$\Rightarrow \frac{63}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$$

$$\Rightarrow 9 \times \frac{90}{10}$$

24.
$$3990 \div 57 + \sqrt{3}61 + \sqrt{3}24 = ?^2 \times 535 \div 729 \times 5$$

$$70 + 19 + 18 = ?^2 \times 535 \div 729 \times 5$$

$$107 = ?^2 \times 535 \div 729 \times 5$$

$$?^2 = 729 \div 25$$

$$? = 27 \div 5$$

Hence, option E is correct.

25.
$$[(2211 \div 67)^2 - 21 \times \sqrt{256} + \div (549 - 213) = ? \div 1344]$$

$$[(33)^2 - 21 \times 16] \div 336 = ? \div 1344$$

$$(1089 - 336) \div 336 = ? \div 1344$$

$$753 \times 1344 \div 336 = ?$$

26.
$$784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div \sqrt{8100} \times 3 = ?$$
 $784 \div 14 + 25.6 \div 2 \times 1.5 \div 90 \times 3 = ?$ $56 + 0.64 = ?$ $? = 56.64$

27.
$$?^2$$
 % of 11.11% of 256 × 1872 ÷ 2704 = 81

$$?^2 \times 1 \div 900 \times 16 \times 1872 \div 52 = 81$$

$$?^2 = 81 \times 900 \times 52 \div 16 \div 1872$$

$$?^2 = 2025/16$$

Hence, option C is correct.

28.
$$3\frac{4}{7} \div [(62\% \text{ of } 620 \times 7) \div 2401] = ?^2$$

$$?^2 = \frac{25}{7} \div (62 \times 62 \div 3430)$$

$$?^2 = \frac{25}{7} \times 3430 \div 62 \div 62$$

$$?^2 = 25 \times 490 \div 62 \div 62$$

$$? = 5 \times 7 \div 62 \times \sqrt{10}$$

$$? = \frac{35}{62} \times \sqrt{10}$$

29.
$$(6561 \times 117) \div 108 \times 36 = 3^{?+4} \div 216^{1/3} \times 39$$

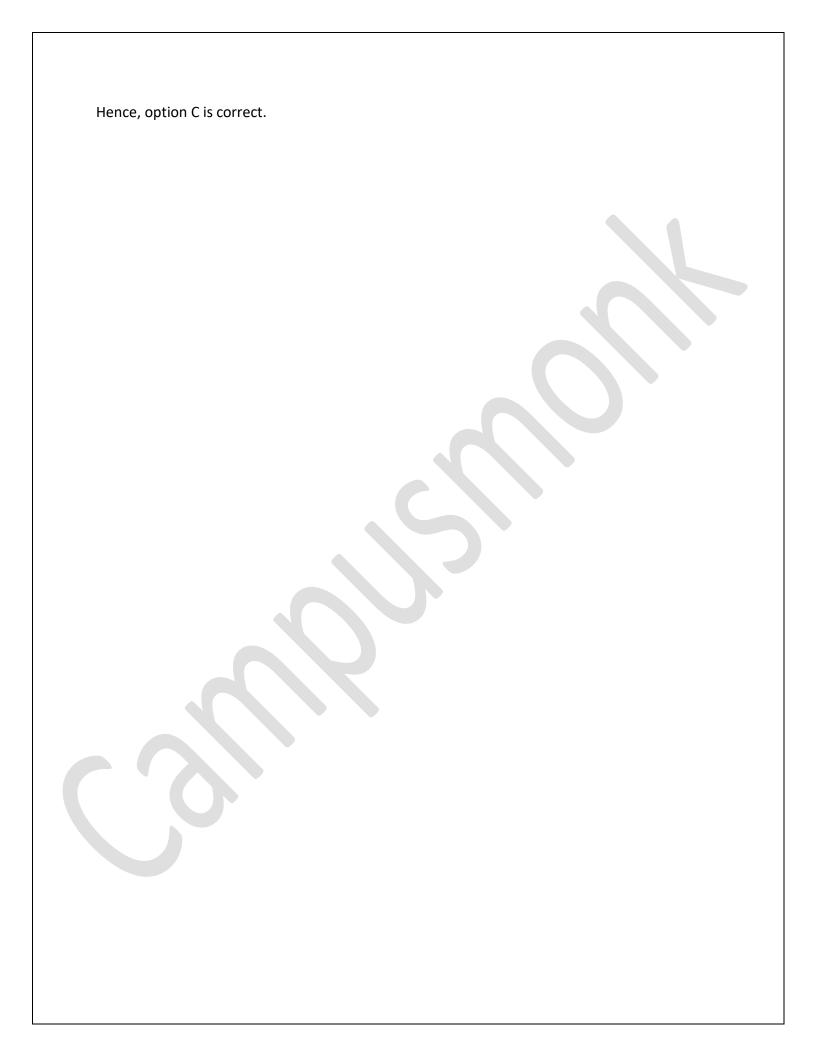
$$(6561 \times 117) \div 108 \times 6 = 3^{?+4} \div 6 \times 39$$

$$729 \times 117 \div 12 \times 6 \times 6 \div 39 = 3^{?+4}$$

$$729 \times 3 \times 3 = 3^{?+4}$$

$$3^{6+2} = 3^{?+4}$$

$$8 = ? + 4$$



30.
$$13\frac{7}{5} \div (512^{1/3} \div \sqrt{1225}) * \frac{2}{4} + \frac{3}{7} (\frac{17}{3} \div \frac{68}{10})] = ?$$

$$72/5 \div (8 \div 35) [2/4 + 3/7 (17/3 \times 10/68)] = ?$$

$$72/5 \times 35 \div 8 [2/4 + 3/7 \times 5/6] = ?$$

$$63(2/4 + 5/14) = ?$$

$$63 (10 + 14)/28 = ?$$

$$63 \times 24/28 = ?$$

$$? = 63 \times 6/7$$

$$? = 9 \times 6 = 54$$

31.
$$(2^{12}-3^9)\times(3^6-9^3)+11^2=?$$

? =
$$(2^{12} - 3^9) \times (729 - 729) + 121$$

Hence, option E is correct.

32.
$$(37.5 \times 22 \times 48) \div 2^4 - ? = (11)^3$$

$$\frac{37.5 \times 22 \times 48}{16} - 1331 = ?$$

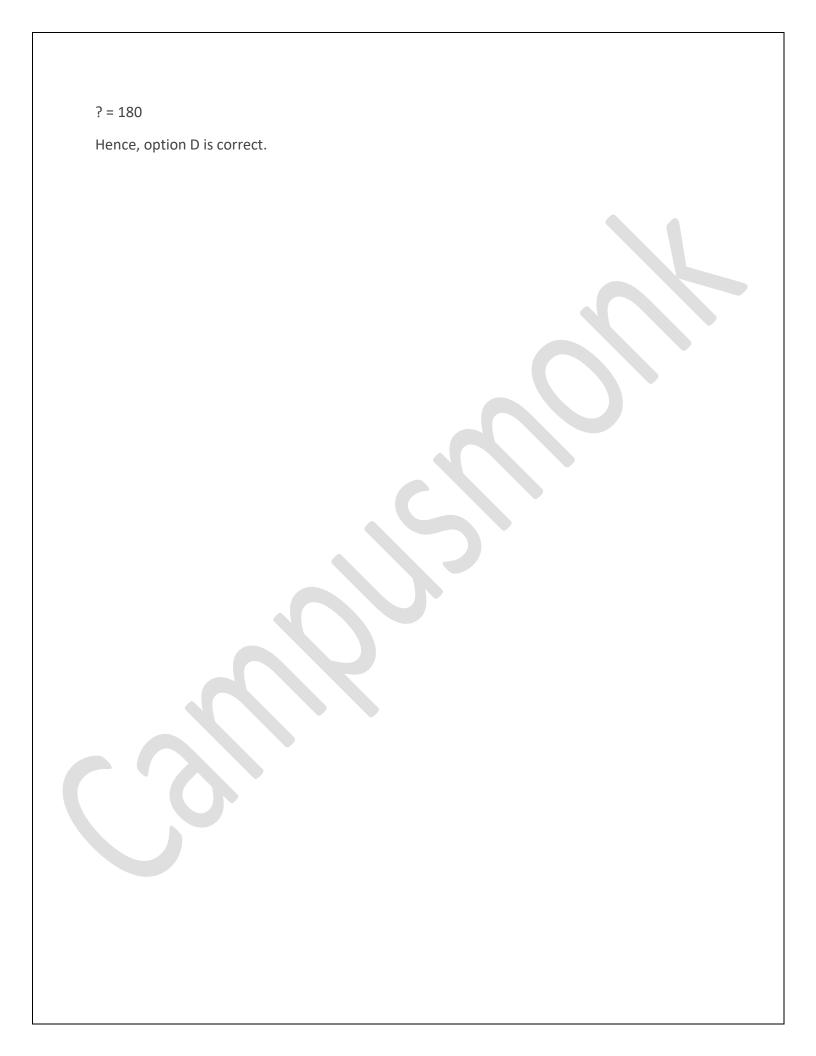
$$? = 37.5 \times 22 \times 3 - 1331$$

$$? = 2475 - 1331 = 1144$$

33.
$$(47 + 47 + 47 + 47 + 47 + 47) \times 5 \times (47 + 47) \times 6 \div (47 \times 2) = 47 \times ?$$

$$47 \times 6 \times 5 \times 47 \times 2 \times \frac{6}{47 \times 2} = 47 \times ?$$

$$47 \times 6 \times 5 \times 6 = 47 \times ?$$



34.
$$2\sqrt{3} \times 3\sqrt{8} \times 2\sqrt{27} \times 2\sqrt{2} = 2^4 \times ?$$

$$2^4 \times ? = 2\sqrt{3} \times 6\sqrt{2} \times 6\sqrt{3} \times 2\sqrt{2}$$

$$? \times 2^4 = 2 \times 6 \times 6 \times 2 \times 3 \times 2$$

$$? = 3 \times 3 \times 3 \times 2 = 54$$

35.
$$17^2 + 19^2 + ? = 21^2 + 15^2$$

$$? = 666 - 650 = 16$$

Hence, option E is correct.

$$\frac{1}{1\times6} + \frac{1}{6\times11} + \frac{1}{11\times16} + \frac{1}{16\times21} = ?$$

$$? = \frac{1}{5} \left(1 - \frac{1}{6} + \frac{1}{6} - \frac{1}{11} + \frac{1}{11} - \frac{1}{16} + \frac{1}{16} - \frac{1}{21} \right)$$

$$? = \frac{1}{5} \left(1 - \frac{1}{21} \right)$$

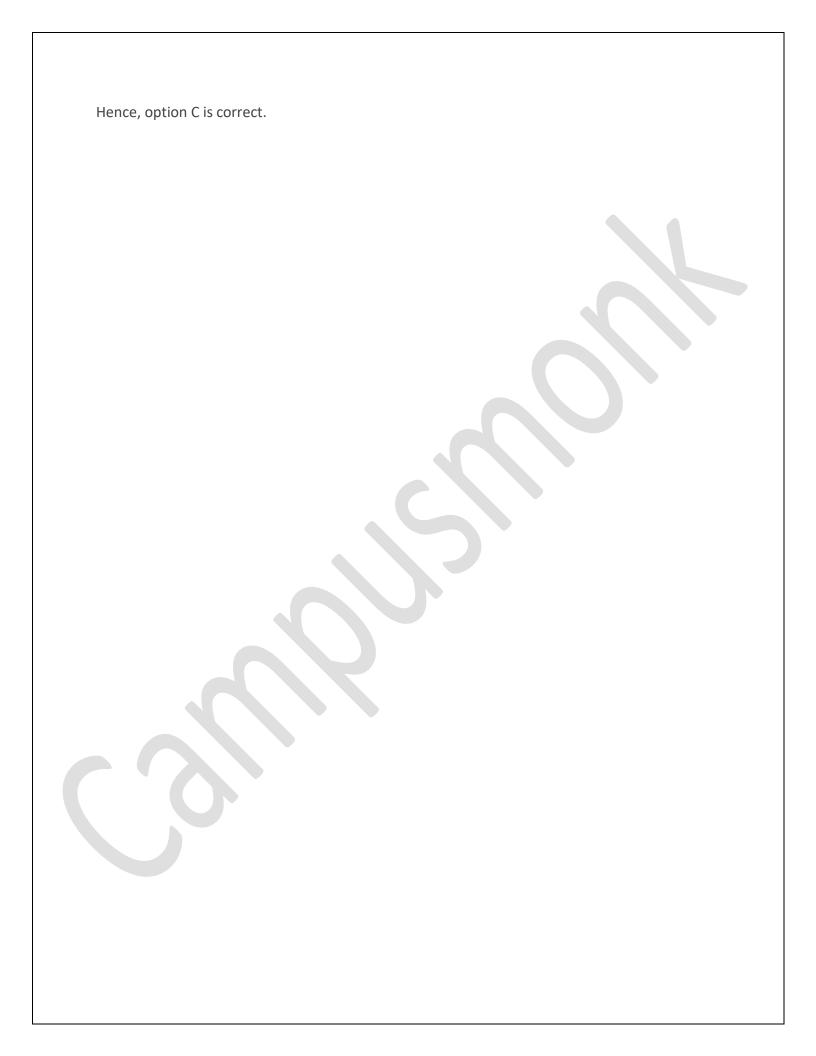
$$? = \frac{1}{5} \times \frac{20}{21}$$

$$? = \frac{4}{21} = \frac{8}{42}$$

37.
$$(5175 \div 23)^{1/2} + (72 \times 2)^{1/2} = (?)^{1/2}$$

$$225^{1/2} + 144^{1/2} = (?)^{1/2}$$

$$15 + 12 = 27 = ?^{1/2}$$



38. 641.23 – 228.48 – 124.21 = ? ? = 288.54

Hence, option C is correct.

39.

$$\frac{\sqrt{3}+1}{\sqrt{3}-1} \times 20^2 - 3^{1/2} \times 2^2 \times 10^2 = (?) \times 10$$

(?) × 10 =
$$\frac{\sqrt{3} + 1}{\sqrt{3} - 1} \times \frac{\sqrt{3} + 1}{\sqrt{3} + 1} \times 400 - \sqrt{3} \times 4 \times 100$$

(?) × 10 =
$$\frac{(\sqrt{3} + 1)^2}{2}$$
 × 400 – 400 $\sqrt{3}$

$$(?) \times 10 = (3 + 1 + 2\sqrt{3}) \times 200 - 400\sqrt{3}$$

$$(?) \times 10 = 4 \times 200 + 400 \sqrt{3} - 400 \sqrt{3}$$

$$(?) \times 10 = 8 \times 100$$

$$(?) \times 10 = 800$$

Hence, option E is correct.

40. $\sqrt{15+\sqrt{?}}=3^{3/2}$

$$15 + ?^{1/2} = 3^3$$

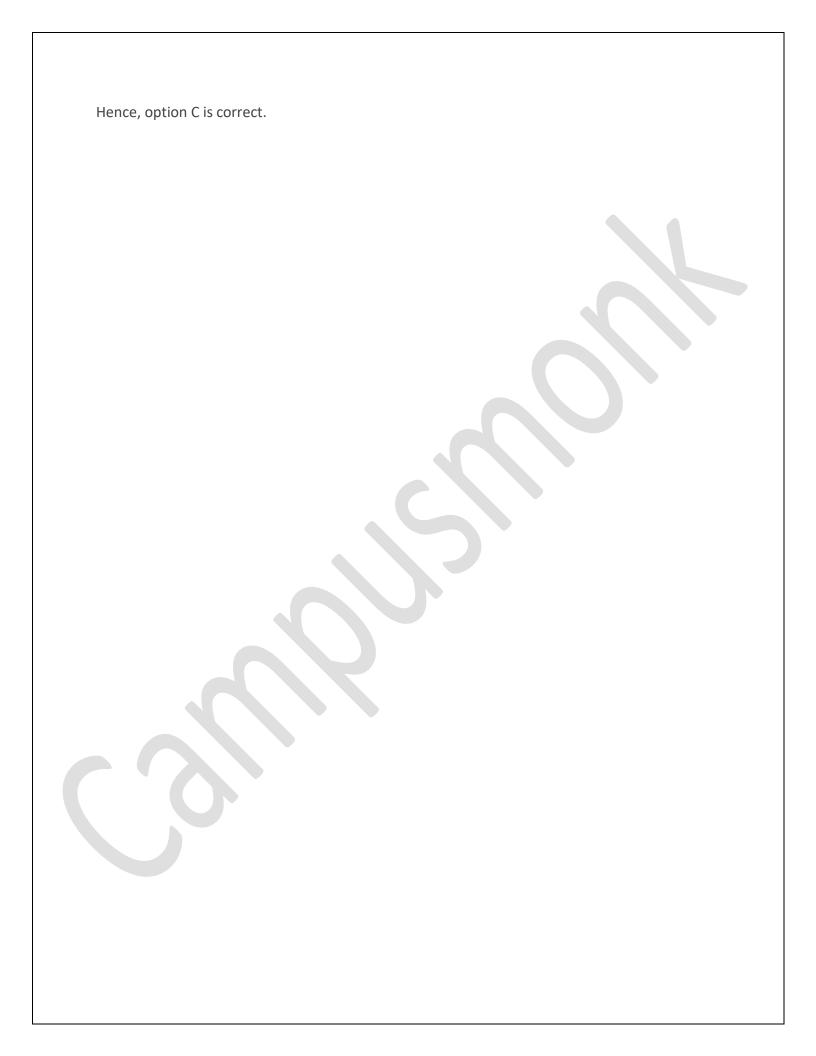
$$?^{1/2} = 27 - 15 = 12$$

Hence, option D is correct.

41. 61% of 550 - ?% of $250 = 3^5$

$$335.5 - ? \times \frac{250}{100} = 243$$

$$335.5 - 243 = ? \times 2.5$$



42.
$$5 \times ? = 735 \div 3$$

$$5 \times ? = 245$$

$$? = \frac{245}{5} = 49$$

43.

$$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$$

$$\frac{4}{7} \times \frac{9}{14} \times \frac{21}{16} \times ? = 1$$

$$? = \frac{14 \times 4}{9 \times 3} = \frac{56}{27} = 2\frac{2}{27}$$

Hence, option D is correct.

44. 19% of 250 + ? =
$$2^7$$

$$19 \times 2.5 + ? = 128$$

$$? = 128 - 47.5 = 80.5$$

Hence, option C is correct.

45.
$$(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^7$$

$$6^{5\times5} \times \frac{9^{5\times3}}{18^{3\times3}} = 2^{16} \times 3^{?}$$

$$\frac{2^{25} \times 3^{25} \times 3^{15} \times 3^{15}}{2^9 \times 3^9 \times 3^9} = 2^{16} \times 3^{?}$$

$$3^{(25+15+15-9-9)} = 3^{?}$$

$$? = 25 + 15 + 15 - 9 - 9 = 37$$

50% of
$$\left(\frac{13 - 1}{10} + 11 - \frac{1}{10}\right) = ?$$

$$\frac{1}{2}$$
 of $\left(\frac{131}{10} + \frac{111}{10}\right) = ?$

? =
$$\frac{1}{2}$$
 of (13.1+ 11.1)

$$? = \frac{24.2}{2} = 12.1$$

47.
$$\sqrt{729} \div 45 \times 720 + ? = 30^2$$

$$\frac{27}{45}$$
 × 720 + ? = 900

$$? = 900 - 432 = 468$$

Hence, option B is correct.

48.

$$9\frac{3}{8} \times 7\frac{3}{5} \times ? = 15^{2}$$

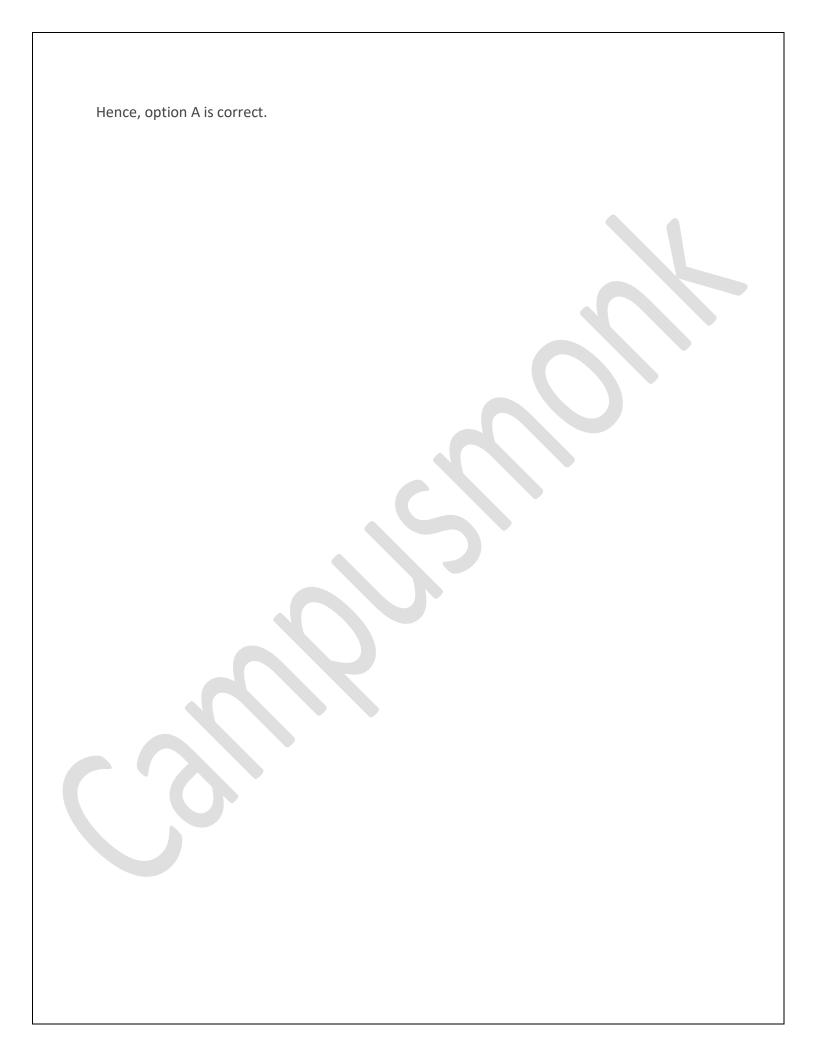
$$\frac{75}{8} \times \frac{38}{5} \times ? = 225$$

$$? = \frac{60}{19} = 3\frac{3}{19}$$

49. 600% of
$$\sqrt{\frac{180 \times 81}{5}} \times 12 \div 3^{-1} = ?^2$$

$$6 \times 6 \times 9 \times 12 \times 3 = ?^2$$

$$? = 3 \times 6 \times 6 = 108$$



50.

$$\frac{2}{3}$$
% of $(2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$

$$\frac{50}{300} \times 6 (2.8 + 3 \times 2.7) = \frac{1}{10} \times ?$$

$$\frac{1}{1}$$
 × ? = 8.1 + 2.8

Simplification:

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. 6912²

E. None of these

A. 20718

B. 18121

C. 16549

D. 14226

E. None of these

A. 12.5

C. 12

D. 11

E. None of these

4. 19 ÷ *1 -
$$\frac{1}{2}$$
 + 2 $\frac{2}{3}$ = ?

A. $\frac{1}{6}$

B. 6

E. None of these

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

A. 7

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

C. 491

D. 490

E. None of these

7.
$$7428 \times {}^{3} \times {}^{2} \times ? = 619$$

A. 0.5

C. 0.2

D. 2.4

E. None of these

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

A. $24 + 12\sqrt{2}$

B. $24 + 10 \sqrt{2}$ C. $23 + 12 \sqrt{2}$ D. $23 + 10 \sqrt{2}$

E. None of these

632323 + 454545 - 757575 - 157866 = ?

A. 187548

B. 174578

C. 171427

D. 172787

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

A. 64

B. 58

C. 8

D. 16

E. None of these

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

A. 10328 B. 12462

C. 10358

D. 10748

E. 12360

13. $\frac{3}{5}$ of 3245 + 32% 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. $(\frac{3}{9})$ of 3267 + 72% 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

120

114

A. $2\frac{}{110}$

C. $1\frac{}{114}$

D. $1_{\frac{120}{120}}$

E. None of these

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

E. None of these

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

A. 15

B. 12

C. 16

D. 18

E. 20

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

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

22.
$$5 2$$

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

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 $1650 = 4 \times ?$

A. 42.5

B. 35.5

C. 53.5

D. 41.5

E. None of these

A. 70

B. 90

C. 80

D. 110

E. 100

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

C. 36

D. 38

E. None of these

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

A. 20

C. 27

D. 31

E. None of these

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

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



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. ⁵ 2 136 $_{13}$ of 1456 of $_{7}$ of $_{17}^{-}$ = ?

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. $\sqrt{2}$

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

E. None of these A. √4 B. 6 C. 2 D. 5

45. $\sqrt[3]{5.83}$ 2 + **35% of 6500** – **?% of 1250** = **222.8**

A. 164.32 B. 18.23

C. 174.32

D. 194.23 E. None of these

 $13\frac{1}{7}$ % 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	С	Α	В	Α	С	Α	E
9	10	11	12	13	14	15	16
С	D	С	В	В	Е	D	D
17	18	19	20	21	22	23	24
Α	D	С	С	В	В	В	С
25	26	27	28	29	30	31	32
D	С	В	D	В	Α	В	В
33	34	35	36	37	38	39	40
D	С	В	В	В	В	С	В
41	42	43	44	45	46	47	48
В	D	С	D	Α	В	D	В
49	50						
Α	В						

Explanations:

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

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

$$\sqrt{?} = *82944 \div 24 \times 36 + \div 18$$

$$? = 6912^{2}$$

Hence, option D is correct.

Hence, option C is correct.

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

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

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

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

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

4.

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

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

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

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

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

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

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

Hence, option B is correct.

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

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

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

$$3 = ?^3 + -340$$

$$?^3 = 340 + 3 = 343$$

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

$$\frac{7}{4} \times \frac{1}{100} \times 1500 + \frac{32}{1000} \times 1450 + \sqrt{1066 - (280 * \frac{15}{100})} \div (-4)$$
 = ?

100

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

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

? = 35+ 464-32×
$$\frac{1}{(4)}$$

$$? = 35 + (464 - 8)$$

Hence, option C is correct.

7.

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

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

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

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

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 C is correct.

10.

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

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

Hence, option D is correct.

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

$$?^2 = 391 + 427 - 754$$

$$?^2 = 391 + 427 - 754$$

$$?^2 = 64$$

Hence, option C is correct.

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

$$3947 - 103 = (?)^2$$

$$3844 = (?)^2$$

Hence, option B is correct.

Hence, option E is correct.

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

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

$$(?)^2 = 6241$$

$$? = \sqrt{6241} = 79$$

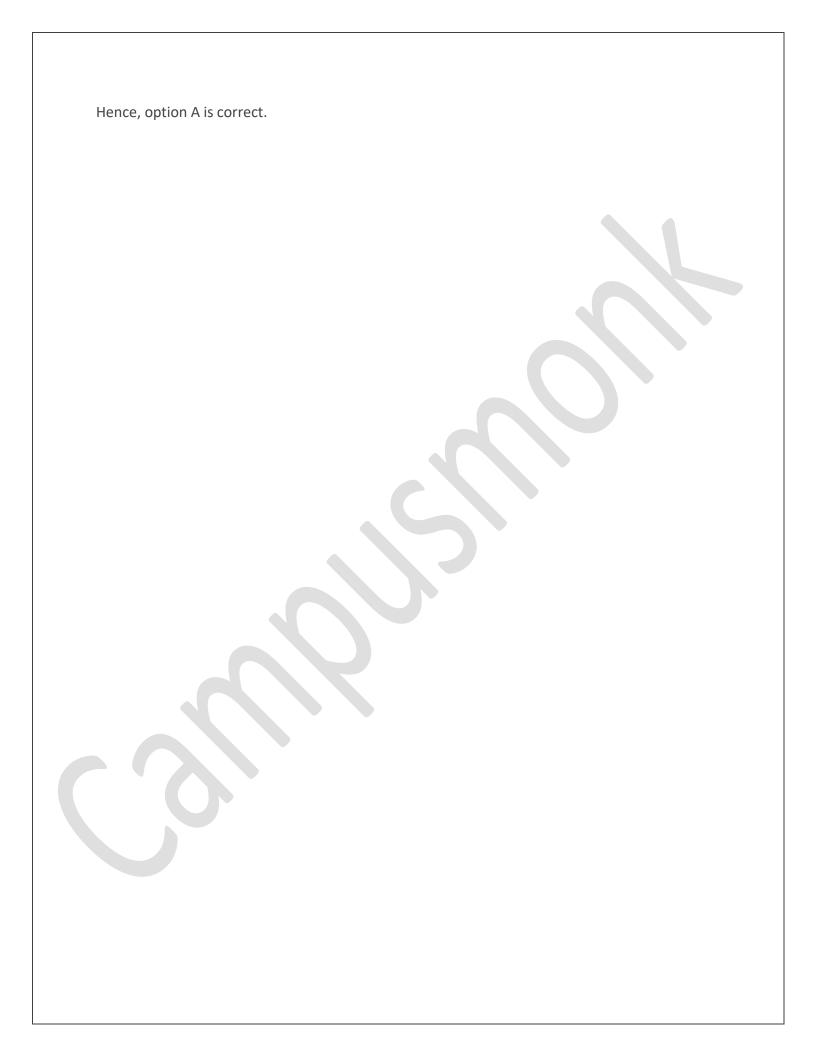
Hence, option D is correct.

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

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

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

$$12.15 + 2.64 = ? - 19$$



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.

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

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

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

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

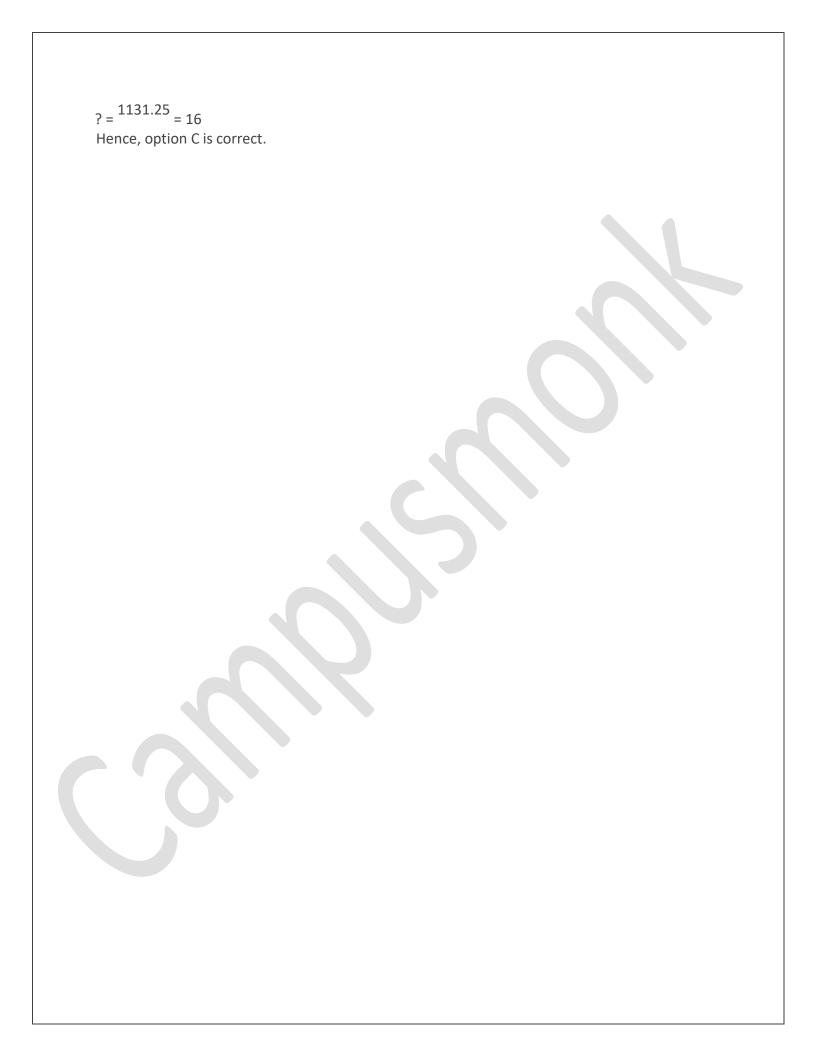
$$? = \frac{5}{3} - 4.5 + 3.5$$

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

Hence, option C is correct.

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

18100



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.

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

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

$$? = 55.3 - 22 = 33.3$$

Hence, option B is correct.

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

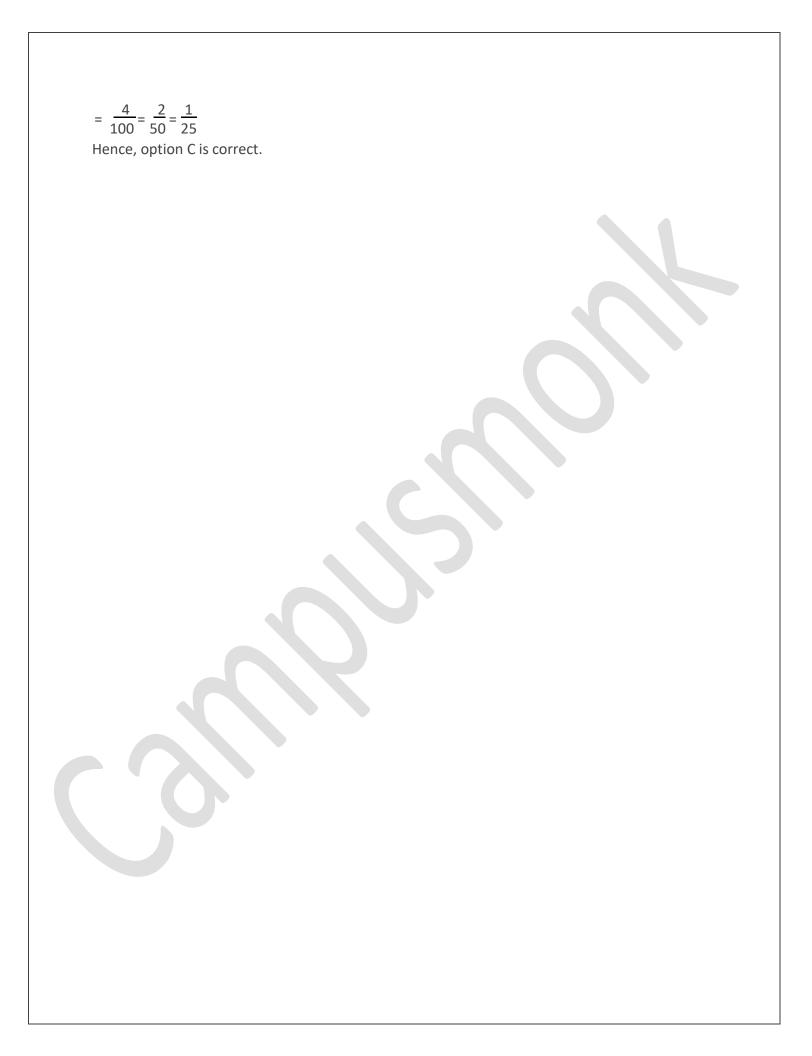
Hence, option B is correct.

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

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

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

$$=\frac{4\times4\times4\times400}{4000\times4\times4\times10}$$



25.
$$185\%$$
 of $500 - 46\%$ of $1650 = 4 \times ?$

$$\Rightarrow$$
 185% of 500 – 46% of 1650 = 4 × ?

$$\Rightarrow$$
 (925 – 759) = 4 × ?

$$\Rightarrow$$
 166 = 4 × ?

$$\Rightarrow$$
 ? = 41.5

Hence, option D is correct.

26.

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

or,
$$4 \times 165 + 85 \times 2.4 = 10.8 \times ?$$

or,
$$660 + 204 = 10.8 \times ?$$

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

Hence, option C is correct.

$$? = 24473 - 12016 - 11037 + 22477 - 9473$$

$$? = 46950 - 32526$$

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

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

$$?^2 = 4797 - 36 = 3481$$

 \therefore ? = $\sqrt{4761}$ = $\sqrt{69}$ × 69 = 69 Hence, option D is correct.

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

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

Hence, option B is correct.

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

$$? = 98 - 91 + 13$$

Hence, option A is correct.

31.
$$\frac{2}{7_3} + 9 \frac{7}{12} + 11 \frac{3}{4} - 6 \frac{1}{2} = ?$$

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

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

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

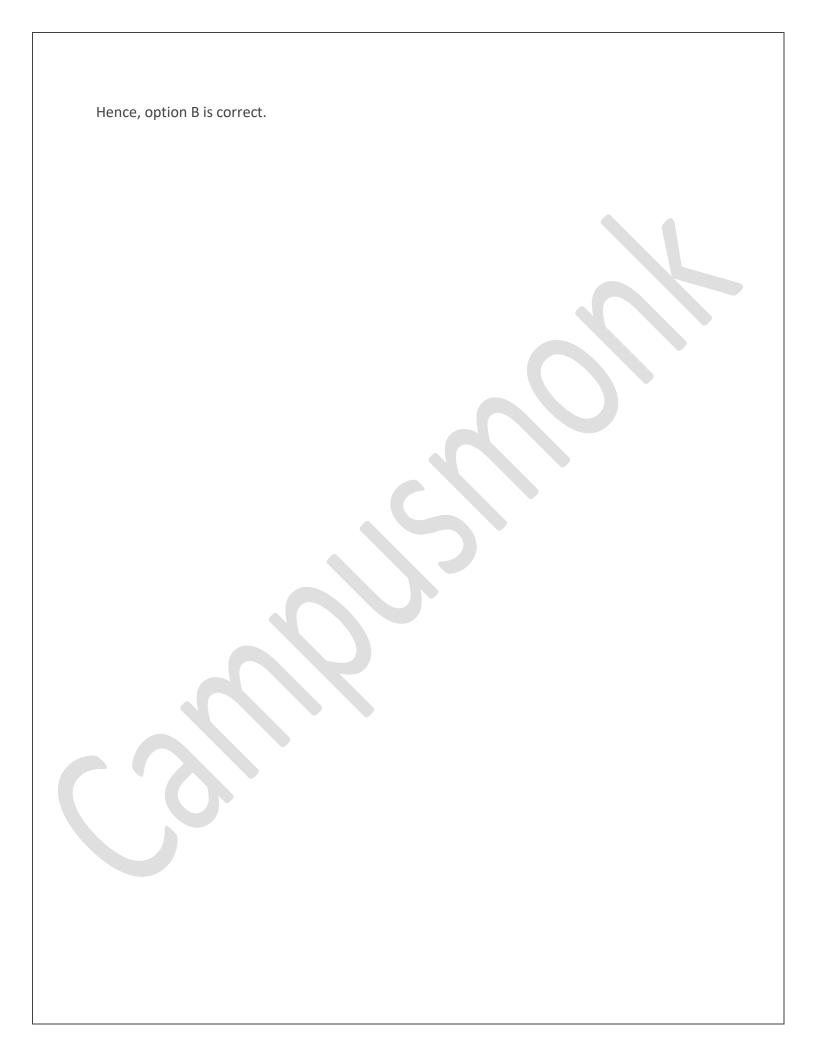
Hence, option B is correct.

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,
$$x = 21 - 18.75$$



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.

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

$$= 20.64 + 109.6 = 130.24$$

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.

38.

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

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

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

Hence, option B is correct.

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

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

Hence, option C is correct.

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

Hence, option B is correct answer.

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

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

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

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

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

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

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

$$\therefore$$
 ? = $\frac{256}{2.56}$ = 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,
$$?^2 = 556.8 + 187.68 - 15.48$$

$$= 744.48 - 15.48 = 729$$

∴ ? =
$$\sqrt{729}$$
 = 27

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

$$\therefore$$
 ? $-3 = 2$

or,
$$? = 3 + 2 = 5$$

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

or,
$$? \times 12.5 = 2276.8 - 222.8$$

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

Hence, option A is correct.

46.

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

$$\therefore \frac{100}{7}\% \text{ of } 2835 + \frac{1}{4} \times 3248 = 1117 + ?$$

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

$$\Rightarrow$$
 405 + 812 = 1117 + ?

$$\therefore$$
 ? = 1217 - 1117 = 100

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

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

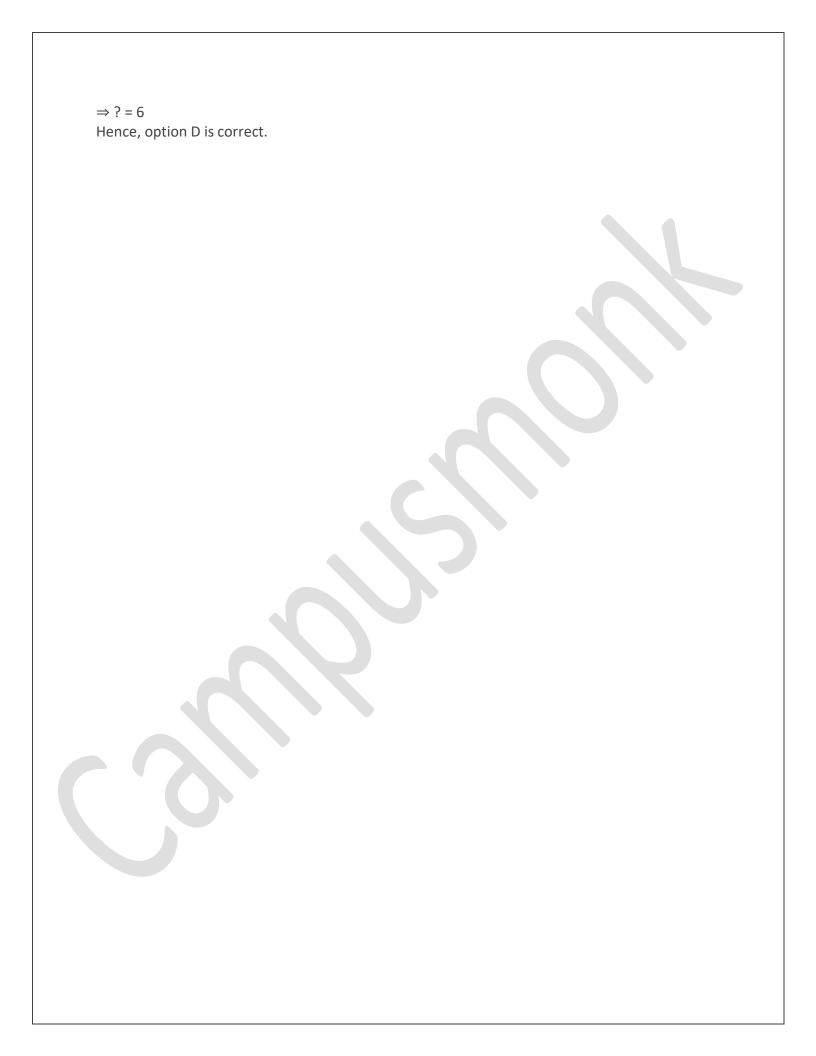
$$\Rightarrow ? = \sqrt{32 + \sqrt{13 + \sqrt{9}}}$$

$$\Rightarrow ? = \sqrt{32 + \sqrt{13 + 3}}$$

$$\Rightarrow$$
 ? = $\sqrt{32 + \sqrt{16}}$

$$\Rightarrow$$
 ? = $\sqrt{32 + 4}$

$$\Rightarrow$$
 ? = $\sqrt{36}$



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 $\sqrt[3]{79507} = ?$

Hence, option A is correct.

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