

# TEACHERS' VISION

WAY TO GOVERNMENT JOBS

# STUDY MATERIAL

## QUANTITATIVE APITITUDE

### 6- Practice Assignment

On

### Simplification

HIGHLY EXPERIENCED FACULTY 10+ YEARS TEACHING EXPERIENCE



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#### Why Us

- ❖ Small Size Batch.
- ❖ Individual Attention to Each Student.
- ❖ We take Regular Test.
- ❖ We prepare Students for Previous Year & Latest Pattern Based Questions.
- ❖ We have Provided Best Results.

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## PRACTICE EXERCISE -1

**DIRECTIONS for questions 1 to 10:** What approximate value will come in place of (?) in the following questions?

1.  $7.05 \times 29.99 + ? = 300.59$

1.110

2.95

3.90

4.98

2. What approximate value will come (?) in the following equation?

$$15.01^2 + \sqrt{81.009} \times 32 = ?$$

1.498

2.369

3.611

4.513

3. What approximate value will come (?) in the following equation?

$$84.95\% \text{ of } 280 + \sqrt{?} = 253.001$$

1.256

2.324

3.18

4.225

4.  $3 \times ? + 30 = 0$

1.-15

2.15

3.-10

4.-30

5.  $40.83 \times 1.20 \times 1.2 = ?$

1.49.97592

2.41.64660

3.58.7952

4.42.479532

6.  $\sqrt{1.5625} = ?$

1.125

2.12.5

3.1.05

4.1.25

7.  $3978 + 112 \times 2 = ? \div 2$

1.8180

2.2101

3.4090

4.8404

8.  $695.95 \times 29.07 \times ? + 40.25 = 399.99$

1.14

2.17

3.12

4.0.01783

9.  $\frac{2}{5} + \frac{7}{8} \times \frac{17}{19} + \frac{6}{5} = ?$

1.1

2.  $\frac{1}{2}$

3.  $\frac{3}{4}$

4.2.3

10.  $399.9 + 206 \times 11.009 = ?$

1.2800

2.6666

3.4666

4.2666

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11.  $\frac{10008.99^2}{10009.001} \times \sqrt{3589} \times 0.4987 = ?$

1.3,000

2.3,00,000

3. 30, 00,000

4.5000

12.  $\sqrt{45689} = ?$

1.180

2.415

3.150

4.214

13. 35% of 1478 + 29% of 3214 = ?

1.1600

2.1250

3.1300

4.1450

14.  $\frac{5}{7}$  of 1596 + 3015 = ? - 2150

1.878

2.543

3.778

4. 6305

15. 5798 - ? = 7385 - 4632

1.3225

2.2595

3.2775

4.3045

## PRACTICE EXERCISE -2

**DIRECTIONS** for questions 1 to 5: What value will come in place of (?) in the following equation?

1.  $152\sqrt{?} + 795 = 8226 - 3486$

1. 425

2. 985

3. 1225

4. 625

2. 159% of 1641 + 1395 = ? + 2500

1. 1400

2. 2000

3. 2500

4. 1519

3.  $6\frac{2}{5}$  of 1705 +  $\frac{3}{4}$  of 1628 + ? = 15000

1. 2467

2. 3867

3. 2867

4. 3527

4.  $\frac{2}{3} - \frac{1}{6} \times 5 + \frac{1}{3} \div \frac{1}{6} = ?$

1.  $\frac{13}{18}$

2.  $\frac{11}{6}$

3.  $2\frac{9}{12}$

4.  $2\frac{7}{12}$

5.  $421 \times 0.9 + 130 \times 101 + 10000 = ?$

1. 33500

2. 23500

3. 22500

4. 24500

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**DIRECTIONS** for questions 6 to 15: What will come in place of the question mark (?) in the following questions?

6.  $0.5\%$  of 1250 –  $0.25\%$  of 600 = ?

1. 6.25

2. 4.75

3. 7.75

4. 4.75

7.  $4985.23 + 4632.14 - ? = 4022.12$

1. 5955.25

2. 5595.25

3. 5295.55

4. 5255.95

8.  $685.59 - ? = 607.88 - 351.46$

1. 449.28

2. 419.17

3. 429.17

4. 439.28

9.  $(4000 + ?) / 28 = 211$

1. 1848

2. 1758

3. 1868

4. None of these

10.  $39\%$  of 230 +  $22\%$  of 115

1. 92

2. 151

3. 115

4. 230

11.  $(3565 / 31) + (5415 / ?) = 400$

1. 19

2. 17

3. 21

4. 23

12.  $?\%$  of 8745 = 5160

1. 49

2. 53

3. 56

4. None of these

13.  $430\%$  of 25 +  $75\%$  of 430

1. 430

2. 860

3. 516

4. 86

14.  $4\frac{4}{9} + 8\frac{7}{9} - 2\frac{2}{3}$

1.  $9\frac{5}{9}$

2.  $8\frac{4}{9}$

3.  $8\frac{2}{3}$

4.  $10\frac{5}{9}$

15.  $43.29 + 25.127 - 11.89 = ?$

1. 55.25

2. 56.527

3. 68.417

4. 54.537

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## PRACTICE EXERCISE -3

**DIRECTIONS for questions 1 to 10:** What approximate value will come in place of the question mark (?) in the following questions?

1.  $? = \sqrt{484.5} + \sqrt{528.5}$   
1. 43                                      2. 47                                      3. 45                                      4. 23
2. 59.8% of 401 + 33.4% of 598 = ?  
1. 340                                      2. 400                                      3. 450                                      4. 440
3.  $\sqrt{570 \times 580} + \frac{447}{1.98} = ? \times 20^2$   
1. 20                                      2. 2                                      3. 4                                      4. 16
4. 330% of 37.5 + 11.11% of 990 = ?  
1. 235                                      2. 220                                      3. 275                                      4. 250
5.  $175 \times 28 + 275 \times 27.98 = ?$   
1. 11800                                      2. 12600                                      3. 12800                                      4. 11600
6.  $? = \sqrt{150 + \sqrt{2404 + \sqrt{674}}}$   
1. 14                                      2. 15                                      3. 18                                      4. 24
7.  $324.995 \times 15.98 \div 4.002 + 36.88 = ?$   
1. 1300                                      2. 1230                                      3. 1440                                      4. 1340
8. Square root of  $(241^2 - 159^2) = ?$   
1. 32800                                      2. 82                                      3. 150                                      4. 180
9. 182.6% of 405 + 33.5% of 240 = ?% of 1642  
1. 85                                      2. 75                                      3. 150                                      4. 50
10.  $1171 \times 128 \div 8.008 + 983.004 = ?$   
1. 18800                                      2. 19500                                      3. 19700                                      4. 19200

**DIRECTIONS for questions 11 to 15:** Find the value of the following:-

11.  $101 + 1001 + 2003 + 30005 + 9056$   
1. 42616                                      2. 42166                                      3. 41266                                      4. 42156

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12.  $1234 - 569 + 789 - 1003 + 596$

1. 1074

2. 1067

3. 1057

4. 1047

13.  $789.345 + 30.075 - 765.21 - 7.86$

1. 46.35

2. 46.36

3. 45.36

4. 46.34

14.  $0.8239 + 0.762 + 0.02 + 5.26$

1. 6.6859

2. 6.8659

3. 6.8569

4. 6.8639

15. What approximate value should come in place of question mark?  
 $80.40 \div 20 - (-4.2) = ?$

1. 497.8

2. 5.786

3. 947.0

4. 8.22

## PRACTICE EXERCISE -4

1. What approximate value should come in place of question mark?  $6\frac{1}{4} \times 0.25 + 0.75 - 0.3125 = ?$

1. 5.9375

2. 4.2968

3. 2.1250

4. 2.0000

2. What approximate value should come in place of question mark?  $4\frac{1}{2} - 3\frac{1}{7} + 13\frac{2}{7} - 8\frac{1}{4} = ?$

1.  $5\frac{11}{28}$

2.  $5\frac{13}{28}$

3.  $6\frac{11}{28}$

4.  $5\frac{15}{28}$

3. What approximate value should come in place of question mark?

$12591 \div 39.8 + 933 \div 13 - 12.86 \times 14.2 + 135 = ?$

1. 340

2. 330

3. 325

4. 350

4. What approximate value should come in place of question mark?

$33\% \text{ of } 1235 + 917 \div 12 - 129\% \text{ of } 765 + 682 = ?$

1. 160

2. 180

3. 200

4. 210

5. What approximate value should come in place of question mark?  
 $119\% \text{ of } 1190 + 33\% \text{ of } 125 - 97\% \text{ of } 813 = ?$

1. 620

2. 700

3. 725

4. 670

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6. Simplify  $10\frac{1}{2} - [8\frac{1}{2} + \{6 - (7 - (6 - 4))\}]$

1.  $\frac{5}{2}$

2. 2

3. 1

4. 3

7. Simplify  $12\frac{1}{2} - [8\frac{1}{2} + \{6 - (7 - (4 - 2))\}]$

1. 6

2. 8

3. 4

4. 3

8. Find the value of  $\frac{(1125 + 143)^2 - (1125 - 143)^2}{4 \times 1125 \times 143}$

1. 4

2. 0

3. 3

4. 1

9. Find the value of  $\frac{(0.46 + 0.64)^2 + (0.18)^2}{(0.64)^2 + (0.46)^2}$

1. 1

2. 2

3. 4

4. 8

10. Find the value of  $0.7 \times 0.7 \times 0.7 + 0.3 \times 0.3 \times 0.3 + 0.63$

1. 1

2. 3

3. 4

4. 2

11. Find the value of  $\frac{0.60 \times 0.60 \times 0.60 + 0.40 \times 0.40 \times 0.40 + 0.40 \times 0.6 \times 3}{0.6 \times 0.6 + 0.4 \times 0.4 + 0.48}$

1. 2

2. 1

3. 4

4. 3

12. Find the value of  $\frac{(1.7)^3 - (0.7)^3 - 3 \times 0.7 \times 1.7}{(3.6)^2 + (0.6)^2 - 2 \times 3.6 \times 0.6}$

1.  $\frac{1}{3}$

2. 1

3.  $\frac{1}{3^2}$

4.  $\frac{1}{3^3}$

13. Find the value of  $(243)^{0.8} \div (243)^{0.4}$ .

1. 49

2. 25

3. 9

4. 16

14. Find the value of  $(8^2 \times 512)^{\frac{2}{5}} \div \left(\frac{1}{16}\right)^{-2}$

1. 4

2. 8

3.  $\frac{1}{8}$

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

15. Find the value of  $(526)^{\frac{7}{3}} \div (526)^{\frac{1}{3}}$

1.  $(526)^2$

2.  $(526)^0$

3.  $(526)^3$

4.  $(526)^4$

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## PRACTICE EXERCISE -5

- Which of the following is a prime number?  
1. 0                      2. 1                      3. 2                      4. -1
- What should come in place of # in the 5 digit number 9#325, for which the number is divisible by 5?  
1. 1                      2. 2                      3. 4                      4. Any of these
- What is the product of 5 smallest whole numbers?  
1. 1                      2. 0                      3. 25                      4. 60
- What is the sum of first 10 perfect squares?  
1. 240                      2. 385                      3. 424                      4. 334
- What is the difference between the greatest 6 digits number and the smallest 6 digit number?  
1. 999998                      2. 899999                      3. 89990                      4. 99990
- There are 10 people in a party. If every person shakes hand with every other person. What is the total number of handshakes?  
1. 105                      2. 55                      3. 45                      4. 30
- A 101 digit number is formed by writing first 55 natural number next to each other. Find the remainder when number is divided by 16.  
1. 15                      2. 14                      3. 4                      4. 9
- The six digit number 735A08 is divisible by 8. How many values of A are possible?  
1. 0                      2. 3                      3. 5                      4. 4
- What is the sum of this series  $1 + 1 + 4 + 8 + 9 + 27 + 16 + 64 + \underline{\hspace{1cm}} + 100 + 1000$   
1. 3240                      2. 3401                      3. 3410                      4. 2409
- Which one of these is not a rational number?  
1. 0.333                      2. 2.0.16666                      3.  $\sqrt{2}$                       4. 5
- Which of the following number is divisible by 4?  
1. 178654                      2. 164857                      3. 176485                      4. 178564
- Simplify the expression using BODMAS rule  $\frac{2}{3}$  of  $\frac{4}{5} \{(9 \times 3) - (6 \times 2)\} + \frac{1}{4} - \frac{1}{12}$   
1.  $\frac{49}{6}$                       2.  $\frac{27}{5}$                       3.  $\frac{49}{9}$                       4.  $\frac{27}{13}$



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13. The product of 45 even numbers is
1. even                      2. odd                      3. 625                      4. Can't say
14. The eight digit number 7654321A is divisible by 9 where A is a single digit whole number. Find A.
1. 0                      2. 2                      3. 4                      4. 8
15. The six digit number 24687X is divisible by 9, where X is a single digit whole number. Find X.
1. 0                      2. 7                      3. 9                      4. Can't be determined

## PRACTICE EXERCISE -6

1.  $(17)^{3.5} \times (17)^2 = 17^8$
1. 2.29                      2. 4.25                      3. 2.75                      4. 4.5
2. If  $5^a = 3125$ , then the value of  $5^{(a-3)}$  is
1. 25                      2. 125                      3. 625                      4. 1625
3. The value of  $\left[ (10)^{150} \div (10)^{146} \right]$  is
1. 1000                      2. 10000                      3. 100000                      4.  $10^6$
4. If m and n are whole number such. Such that  $m^n = 121$ , the value of  $(m-1)^{n+1}$  is
1. 1                      2. 10                      3. 121                      4. 1000
5. If  $(32768)^{x-2} = (32)^x$ , then find the value of x.
1. 5                      2. 4                      3. 3                      4. 2
6. If  $4^{2x} = 256$ , find x
1. 1                      2. 4                      3. 2                      4. 3
7. Find the conjugate of the surd  $(\sqrt{13}-2)$
1.  $\sqrt{3}+2$                       2.  $\sqrt{13}-2$                       3.  $-(2+\sqrt{13})$                       4.  $2-\sqrt{3}$

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8. If  $2^p 3^q = 432$ , and  $p$  and  $q$  are integers, find  $(p + q)$ .

1. 6

2. 7

3. 8

4. 9

9. Solve  $x^{3/2} + 4x^{-1} - 5x^0$  when  $x = 4$

1. 4

2. -4

3. 7

4. 0

10. Solve  $y^{2/3} + 3y^{-1} - 2y^0$  when  $y = 1/8$

1. 0

2. 7/9

3. 89/4

4. 22/4

11. Simplify  $64^{-2/3} \times 16^{5/4} \times 2^0 \times \sqrt{3^4}$

1. 10

2. 1

3. 18

4. 20

12. Simplify  $8^{2/3} \times 16^{-3/4} \times 2^0 - 8^{-2/3}$

1. 1

2. 1/4

3. 1/8

4. 1/16

13. Simplify  $\sqrt[n]{\frac{32}{2^{5+n}}}$

1. 1/4

2. 1/16

3. 1/8

4. 1/2

14. Simplify  $\left(\frac{2^{-8} \times 3^4}{5^{-4}}\right)^{\frac{1}{4}}$

1. 2/15

2. 8/15

3. 1/12

4. 4/15

15. Simplify  $\frac{\sqrt{a} \times a^{\frac{2}{3}}}{\sqrt[6]{a^5}} + \frac{a^{\frac{1}{2}}}{\sqrt[3]{a^2 \times a^{\frac{1}{2}}}}$

1. 2/a

2. 1/a

3. 0

4. -1/a

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## ANSWERS

PRACTICE EX-1		PRACTICE EX-2		PRACTICE EX-3		PRACTICE EX-4		PRACTICE EX-5		PRACTICE EX-6	
1.	3	1.	4	1.	3	1.	4	1.	3	1.	4
2.	4	2.	4	2.	4	2.	3	2.	4	2.	1
3.	4	3.	3	3.	2	3.	1	3.	2	3.	2
4.	3	4.	2	4.	1	4.	2	4.	2	4.	4
5.	3	5.	2	5.	2	5.	4	5.	2	5.	3
6.	4	6.	2	6.	2	6.	3	6.	3	6.	3
7.	4	7.	2	7.	4	7.	4	7.	1	7.	3
8.	4	8.	3	8.	4	8.	4	8.	3	8.	2
9.	4	9.	4	9.	4	9.	2	9.	3	9.	1
10.	4	10.	3	10.	3	10.	1	10.	3	10.	3
11.	2	11.	1	11.	2	11.	2	11.	4	11.	3
12.	4	12.	4	12.	4	12.	3	12.	1	12.	2
13.	4	13.	1	13.	1	13.	3	13.	1	13.	4
14.	4	14.	4	14.	2	14.	4	14.	4	14.	4
15.	4	15.	2	15.	4	15.	1	15.	4	15.	1

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