

G.S.C.E
Chapter Covered Simplification
(50 Questions with Options)

1. Question

$$(3024 \div 189)^{\frac{1}{3}} + (684 \div 19)^2 = (?)^2 + 459$$

- 1) 27
- 2) 29
- 3) 31
- 4) 841
- 5) 1089

2. Question

$$4.4 \text{ times of } \frac{5}{16} \text{ of } 30\% \text{ of } 216 = ?$$

- 1) 81.9
- 2) 83.7
- 3) 87.3
- 4) 89.1
- 5) 85.7

3. Question

$$(1.06 + 0.04)^2 - ? = 4 \times 1.06 \times 0.04$$

- 1) 1.0402
- 2) 1.4
- 3) 1.5
- 4) 1.032
- 5) none of these

4. Question

$$\frac{0.538 \times 0.5380 - 0.462 \times 0.462}{1 - 0.924} = ?$$

- 1) 2
- 2) 1.08
- 3) 0.076
- 4) 0.987
- 5) 1

5. Question

$$27^2 \times 6 \div 9 + 7^3 + 71 = (?)^3 - 431$$

- 1) 11
- 2) 13^3
- 3) 13
- 4) 11^2
- 5) 11^3

6Q What approximate value should come at place of the question mark(?) in the following question?

$$\sqrt[3]{5332} = ?$$

- 1) 8
- 2) 38
- 3) 58
- 4) 68
- 5) 18

7Q: What approximate values should come in place of the question mark(?) in the following question?

$$\sqrt{2228} = ?$$

- 1) 57
- 2) 47
- 3) 67
- 4) 37
- 5) 27

8Q: What approximate value should come in place of the question mark(?) in the following question. $635 \times 455 \div 403 = ?$

- 1) 735
- 2) 795
- 3) 695
- 4) 685
- 5) 715

9 Q What approximate value should come in place of the question mark(?) in the following question? $5223 \div 36 \times 0.93 = ?$

- 1) 135
- 2) 125
- 3) 145
- 4) 155
- 5) 115

10. Q: Simplification the following equations shown below

$$(7921 \div 178) - 5.5 = \sqrt{?}$$

- 1) 1512
- 2) 1521
- 3) 1251
- 4) 1531
- 5) None of these

11Q: Simplification the following equations

$$(5863 - \sqrt{2704}) \times 0.5 = ?$$

- 1) 2955.5
- 2) 2905.5
- 3) 2590.5
- 4) 2905.5
- 5) None of these

12 Q:What should come place of the question mark(?) in the following number series?

17, 18 , 26, 53 , 117, ? , 458

- 1) 342
- 2) 142
- 3) 257
- 4) 262
- 5) 242

13 Q: What will come in place of question mark(?) in the following number series?

11, 57, 149, 333, 701 (?)

- 1) 1447
- 2) 1347
- 3) 1368
- 4) 1437
- 5) None of these

14Q. Q: $\frac{2}{3}$ is what percent of $\frac{1}{3}$ =?

- 1) 50%
- 2) 70%
- 3) 50%
- 4) 200%

15Q $\left(\frac{31570x2}{5}\right) = ?$

- 1) 202
- 2) 232
- 3) 242
- 4) 332

16Q The square root of 64009 is :

- 1) 253
- 2) 347
- 3) 363
- 4) 803

17Q The digit in the unit's place in the square root of 15876 is :

- 1) 2
- 2) 4
- 3) 6
- 4) 8

18Q $\left(\frac{31570x2}{5}\right)=?$

- 1) 1.05
- 2) 1.25
- 3) 1.45
- 4) 1.55

19Q The value of $\left(\frac{31570x2}{5}\right)$ is ?

- 1) 0.02
- 2) 0.2
- 3) 0.51
- 4) 0.63

20Q The value of $\left(\frac{31570x2}{5}\right)$ is

- 1) 0.011
- 2) 0.11
- 3) 0.347
- 4) 1.1

21Q

Simplify

$$\frac{1.5^3 + 4.7^3 + 3.8^3 - 3 \times 1.5 \times 4.7 \times 3.8}{1.5^2 + 4.7^2 + 3.8^2 - 1.5 \times 4.7 - 4.7 \times 3.8 - 1.5 \times 3.8}$$

- A) 6
- B) 8
- C) 10
- D) 12

22Q

Simplify the following :

$$\frac{37^3 + 35^3 + 28^3 - 3 \times 37 \times 35 \times 28}{37^2 + 35^2 + 28^2 - 37 \times 35 - 35 \times 28 - 37 \times 28} ?$$

- A) 100
- B) 1
- C) 4
- D) 0

23Q

If $a * b = 2a - 3b + ab$, then $3 * 5 + 5 * 3$ is equal to

- A) 22 B) 23
 C) 24 D) 25

24Q

If $a + b + c = 13$, $a^2 + b^2 + c^2 = 69$ then find the $ab + bc + ca$

- A) 10 B) 30
 C) 50 D) 70

25Q

Simplify the fraction?

$$5 \left(\frac{2}{7}\right) - 3 \left(\frac{1}{14}\right) - 2 \left(\frac{1}{14}\right) - 1 \left(\frac{1}{7}\right) = ? + 3 \left(\frac{1}{17}\right)$$

- A) $-4 \left(\frac{1}{17}\right)$ B) $5 \left(\frac{2}{17}\right)$
 C) $-2 \left(\frac{1}{17}\right)$ D) $3 \left(\frac{3}{17}\right)$

26Q

Simplify the following equation.

$$\frac{19}{43} + \frac{1}{\left(2 + \frac{1}{3 + \frac{1}{1 + \frac{1}{4}}}\right)}$$

- A) $\frac{43}{19}$ B) 1
 C) $\frac{38}{19}$ D) None of these

27Q

Find the value of

$$n + \frac{3n}{2} + \frac{9n}{4} + \dots \infty$$

- A) 0 B) 1
 C) 2 D) infinity

28Q

$$\sqrt[3]{9261} \times \sqrt{62742241} = ? + 89$$

Find the value of '?'

- A) 166251 B) 166259
 C) 166252 D) 166253

29Q

Simplify and find '?'

$$48\sqrt{?} + 32\sqrt{?} = 320$$

- A) 4 B) 8
 C) 16 D) 32

30Q

If $3x + 7 = x^2 + p = 7x + 5$, what is the value of P?

- A) 17/2 B) 25/3
 C) 33/4 D) 41/5

31Q

Simplify the following equation

$$\frac{[(K-L)^2 - (K+L)^2]}{4K} = a/b$$

- A) $K = b/a$ B) $bL = -a$
 C) $KL = 1$ D) $aK = -b$

32Q

38% of 7500 + ?% of 375 = 50% of 6000

- A) 50 B) 40
 C) 60 D) 45

33Q

$$17\frac{4}{7} + 13\frac{2}{12} - ? = 11\frac{2}{3}$$

- A) 16 B) 17
 C) 18 D) 19

34Q

If $3^{x-y} = 27$, $3^{x+y} = 243$ then find the x value

- A) 2 B) 8
 C) 4 D) 1

35Q

Simplify the following and find the value of ?

$$\frac{1}{3} \text{ of } ? + \frac{4}{7} \text{ of } \frac{11}{4} \text{ of } 539 = 31\% \text{ of } 2000$$

- A) 1134 B) 1237
 C) 1187 D) 1249

36Q

Simplify $(2\sqrt{392} - 21) + (\sqrt{8} - 7)^2 = (?)^2$

- A) 4 B) 5
 C) 6 D) 9

37Q

43% of 616.6 + 37% of 217 = ?

- A) 345.428 B) 354.428
 C) 344.428 D) 364.428

38Q

39.96% of 649.85 \div 13.07 = 45.14 - ?

- A) 25 B) 26
 C) 27 D) 28

39Q

If $\frac{a}{b} = \frac{4}{5}$ and $\frac{b}{c} = \frac{15}{16}$, then $\frac{c^2 - a^2}{c^2 + a^2}$ is :

- A) 7/5 B) 7/25
 C) 7/125 D) 7

40Q

$\frac{23x12 + 49x15}{31^2 + 50} = ?$

- A) 0.5 B) 1
 C) 2 D) 3

41Q

Simplify the following :

$4\frac{1}{5} \times 3\frac{1}{3} + ? = 20\% \text{ of } 120$

- A) 10 B) 24
 C) 36 D) 40

42Q

Simplyfy : $\left[3\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left(2\frac{1}{2} - \left(\frac{1}{4} + \frac{1}{6} \right) \right) \right\} \right]$

- A) 78 B) 88
 C) 98 D) 108

43Q

$$2660 \text{ of } \frac{1}{7} \text{ of } \frac{1}{2} \text{ of } \frac{1}{9.5} \text{ of } \frac{1}{2} = ?$$

- A) 1 B) 10
 C) 0.1 D) 100

44Q

Given that $10^{0.48} = x$, $10^{0.70} = y$ and $x^z = y^2$, then the value of z is close to ___?

- A) 3.7 B) 2.7
 C) 3.6 D) 2.9

45Q

Simplify the following expression?

$$40\% \text{ of } \left(\frac{24}{4} \times ?\right) = 48$$

- A) 24 B) 22
 C) 20 D) 18

46Q

$$142^2 \div \sqrt{1260.25} = ?$$

- A) 586 B) 578
 C) 568 D) 566

47Q

$$\frac{7}{8} \text{ of } 448 + \frac{6}{7} \text{ of } 3374 = ?$$

- A) 3084 B) 3184
 C) 3584 D) None of these

48Q

Which of the following statement(s) is/are TRUE?

I. $\frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots + \frac{1}{11 \times 13} = \frac{12}{13}$

II. $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{12 \times 13} = \frac{12}{13}$

- A) Only I B) Only II
 C) Both I and II D) Neither I nor II

49Q

What should come in place of question mark (?) in the following question?

$$41\% \text{ of } 600 - 250 = ? - 77\% \text{ of } 900$$

A) 889

B) 589

C) 789

D) 689

50Q

$$50.003\% \text{ of } 99.8 \div 49.988 = ?$$

A) 2

B) 0

C) 1

D) 50

For Any Query please feel free to contact 9874021370 time 10am-6pm(Mon-Sat)