

SSC SELECTION POST PHASE IX



Matriculation Level Tier-1 Compilation



All 18 Shifts (2 Feb 2022 to 16 March 2022)

Quantitative Aptitude (in English)

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By Shubham Sir



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- 2) SSC CHSL 2020 Tier-1 question papers
- 3) SSC MTS 2020 Tier-1 question papers
- 4) SSC Stenographer 2020 Question papers
- 5) DSSSB junior clerk question papers
- 6) SSC CGL 2019 Tier-2 question papers
- 7) SSC CPO 2018, 2019 , 2020 Tier-2 Question papers
- 8) SSC GD 2021 all 63 shifts compilation
- 9) RRB NPTC subject-wise compilations

Other pdfs available in the telegram channel:

- 1) SSC CGL 2019 Tier-1 and Tier-2 question papers
- 2) SSC CHSL 2019 question papers
- 3) SSC CPO 2018,2019 and 2020 question papers
- 4) SSC Stenographer 2019 question papers
- 5) RRB NTPC Latest Question papers (132 + shifts compilation)**
- 6) SSC Selection post phase vii and phase viii question papers.
- 7) UP SI 2021 all 54 Shifts
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SSC CGL Job Description
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<https://youtube.com/playlist?list=PL5SDIP42gG0iv-YvGN5CLE-tV81gYrKU>



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Index-Matriculation Level

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SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

02/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

A travelled from a place P to place Q at an average speed of 36 km/h. He travelled the first 75% of the distance in four-fifth of the time and the rest at a constant speed of x km/h. The value of x is:

1. 50 2. 40 3. 60 4. 45

Q.2)-

By selling an article for ₹507.40, a person makes a profit of 18%. At what price (in ₹) should he sell it to make a profit of 24%?

1. 524.60 2. 540.50 3. 520.80 4. 533.20

Q.3)-

The number of students in three sections of a class in a school are in the ratio 5 : 7 : 8. If 20, 25 and 40 more students are admitted in the three sections, respectively, the new ratio becomes 9 : 12 : 16. The total number of students after the new admissions is:

1. 160 2. 140 3. 100 4. 185

Q.4)-

The average height of 20 students of Class 9 is 147 cm and the average height of 15 students of Class 10 is 154 cm. What is the average height (in cm) of the students of the two Classes?

1. 152 2. 149 3. 150 4. 153

Q.5)-

The average of the numbers 52, 87, k, 103, 48, (k+4), 51 is 63. What is the value of k?

1. 48 2. 44 3. 46 4. 49

Q.6)-

If the length of the diagonal of a cube is $16\sqrt{3}$ cm, what is its lateral surface area (in sq cm)?

1. 1,536 2. 2,048 3. 3,072 4. 1,024

Q.7)-

Three successive discounts of 40%, 25% and 20%, respectively, on the marked price of a chair, are equal to a single discount of ₹960. The marked price (in ₹) of the chair is:

1. 1,500 2. 2,400 3. 1,800 4. 1,600

Q.8)-

P, Q and R together can do a piece of work in 56 days. P and Q together can do one-fourth as much work as R alone. In how many days can P and Q together complete the entire work?

1. 280 2. 210 3. 70 4. 140

Q.9)-

In the last two weeks of a sale, prices are reduced by 32%. What is the sale price (to the nearest rupee) of a microwave oven which originally cost ₹25,995?

1. 21,729 2. 17,677 3. 16,767 4. 18,318

Q.10)-

A new scooter is valued at ₹1,20,000. At the end of each year, its value is reduced by 12% of its value at the start of the year. What will be its value (in ₹) after 2 years?

1. 1,50,528 2. 96,450 3. 1,00,875 4. 92,928

Q.11)-

Find the sum of the greatest 4-digit number divisible by 6 and the smallest 4-digit number divisible by 3.

1. 10998 2. 11000 3. 11004 4. 10995

Q.12)-

$[(4a - 5b)^3 + (5b - 3c)^3 - (4a - 3c)^3]$ is equal to:

1. $-3(4a - 5b)(5b - 3c)(4a - 3c)$ 2. 0 3. 60 abc 4. $3(4a - 5b)(5b - 3c)(4a - 3c)$

Q.13)-

Find the value of $(a - 2x)^3 + (b - 2x)^3 + (c - 2x)^3 - 3(a - 2x)(b - 2x)(c - 2x)$,

given that $a + b + c = 6x$.

1. 2 2. 0 3. 1 4. 3

Q.14)-

A bought a cycle and sold it to B at a profit of ₹1,000. B sold it to C at 5% loss. C sold it to D for ₹10,450 at 10% profit. If D had bought the cycle directly from where A had bought, then how much amount (in ₹) would he have saved?

1. 450 2. 1,280 3. 1,500 4. 1,450

Q.15)-

The fourth proportional to 10.8, 3.6 and 20.4 is:

1. 12.4 2. 6.8 3. 14.8 4. 9.6

Q.16)-

There are twice as many girls as boys in a class. If 45% of the girls and 30% of the boys have submitted their consent for the outstation tour, then what per cent of the students have NOT submitted consent for the tour?

1. 60% 2. 44% 3. 50% 4. 40%

Q.17)-

Anu drives her car for 1 hour at a speed of 60 km/h, for 2 hours at a speed of 55 km/h, and for 3 hours at a speed of 45 km/h. What is the average speed of the car (in km/h)?

1. $48\frac{1}{3}$ 2. 49 3. $50\frac{5}{6}$ 4. $52\frac{1}{2}$

Q.18)-

In how much time (in years) will ₹8,000 amount to ₹9,159.20 at 14% per annum interest compounded half yearly?

1. 4 2. 1 3. 3 4. 2

Q.19)-

Three men do as much work as 4 boys do in 21 days. In how many days will 9 men and 2 boys complete the same work?

1. 7 2. 8 3. 11 4. 6

Q.20)-

If a nine-digit number 385x3678y is divisible by 72, then the value of (y-x) is:

1. 5 2. 4 3. 3 4. 2

Q.21)-

A machine was sold at ₹27,300 at a loss of 9%. Find the loss (in ₹).

1. 2,457 2. 2,700 3. 2,270 4. 2,450

Q.22)-

A sum lent at simple interest amounts to ₹6,313 in one year and ₹7,139 in 3 years. What is the rate of interest per annum?

1. 5% 2. 7% 3. 8% 4. 6%

Q.23)-

There are five numbers whose average is 72. If the first number is one-fifth of the sum of the other four numbers, then the first number is:

1. 65 2. 56 3. 54 4. 60

Q.24)-

The price of a mobile is ₹15,000. During the annual sale, Its price decreased in the ratio of 8 : 5. What is its decreased price (in ₹)?

1. 9,375 2. 9,500 3. 10,300 4. 10,000

Q.25)-

48% of the total marks is required to pass an examination and 80% to get a First Class with distinction. A student scored 817 marks and failed by 47 marks. How many marks should he secure to get First Class with distinction?

1. 1440 2. 1550 3. 1600 4. 1500

Answer key

Q.1	4	Q.2	4	Q.3	4	Q.4	3	Q.5	1
Q.6	4	Q.7	1	Q.8	1	Q.9	2	Q.10	4
Q.11	1	Q.12	1	Q.13	2	Q.14	4	Q.15	2
Q.16	1	Q.17	3	Q.18	2	Q.19	4	Q.20	3
Q.21	2	Q.22	2	Q.23	4	Q.24	1	Q.25	1



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

02/02/2022-> (12:00 PM - 1:00 PM)

Quantitative Aptitude

Q.1)-

The average weight of a class of 20 students is 44 kg. A new student joins the class and the average weight decreases by 300 gm. What is the weight of the new student (in kg)?

1. 37.7 2. 36.5 3. 43.7 4. 42

Q.2)-

A man is delayed in reaching his workplace by 30 minutes due to bad traffic as he can drive at $\frac{7}{9}$ of his usual speed. What is his usual time (in hours and minutes) of travel?

1. 2 hours 10 minutes 2. 2 hours 15 minutes 3. 1 hour 30 minutes 4. 1 hour 45 minutes

Q.3)-

Karuna and Aditi scored 434 and 336 marks, respectively, in an examination. If Karuna scored 62% marks, then what is the percentage of marks scored by Aditi?

1. 45% 2. 46.5% 3. 52% 4. 48%

Q.4)-

A car covers the first 80 km of its journey at a speed of 40 km/h. The driver makes a stop at the tea-stall for 30 minutes and then continues his journey at a speed of 60 km/h for 4 hours. What is his average speed (in km/h, correct to 1 decimal place)?

1. 49.2 2. 53.3 3. 48.5 4. 55.4

Q.5)-

If $a : b = 7 : 4$, then find $(2a + 7b) : (7b - 2a)$.

1. 5 : 2 2. 3 : 1 3. 4 : 1 4. 3 : 2

Q.6)-

A 70 cm wide path is made around a circular garden having a diameter of 14 metres. What is the area of the path (in m^2)?

1. 8.29π 2. 11.29π 3. 10.29π 4. 13.29π

Q.7)-

Find the value of $\frac{0.23^2 - 0.04^2}{0.09}$.

1. 0.57 2. 3 3. 0.52 4. 0.01

Q.8)-

A sold an article to B at 10% loss, B sold it to C at 15% profit and C sold it to D at 10% profit. If D bought it for ₹4,554, then what was the cost price (in ₹) of A?

1. ₹3,960 2. ₹4,000 3. ₹3,920 4. ₹4,200

Q.9)-

If a 9-digit number 1039m837n is divisible by 72, then find the value of $\frac{n^2 - m}{4}$.

1. 6 2. 4 3. 7 4. 2

Q.10)-

What will be the compound interest (in ₹, to the nearest rupee) on ₹17,600 for 2 years at 7% per annum, compounded annually?

1. 1,225 2. 2,550 3. 2,330 4. 2,015

Q.11)-

Find the number nearest to 51462, that is divisible by 8.

1. 51464 2. 51468 3. 51456 4. 51480

Q.12)-

Two trains start at the same time from two stations and proceed towards each other at speeds 88 km/h and 75 km/h, respectively. When they meet, it is found that one train has travelled 65 km more than the other. What is the distance (in km) between the two stations?

1. 815 2. 875 3. 975 4. 960

Q.13)-

A merchant purchased 650 kg of wheat at ₹50 per kg. He sold 250 kg of it at a profit of 24% and 200 kg at a loss of 24%. At what rate per kg (in ₹) should he sell the remaining wheat to gain 20% on his initial investment?

1. 55.5 2. 79.5 3. 47.5 4. 52.5

Q.14)-

The simple interest on a certain sum for $4\frac{1}{2}$ years at 10% p.a. is 60% of the compound interest on a sum of ₹12,000 for 1 year at 10% p.a., interest compounded half yearly. The sum on which the simple interest is calculated is:

1. ₹1,680 2. ₹2,000 3. ₹1,640 4. ₹2,450

Q.15)-

If $x\%$ of 190 is 15 less than $(x + 10)\%$ of 180, then $(x + 30)\%$ of 90 is what per cent more than $x\%$ of 150?

1. 20% 2. $17\frac{1}{3}\%$ 3. 25% 4. $16\frac{2}{3}\%$

Q.16)-

A, B and C can do one-third of a work in 15 days, 30 days and 10 days, respectively. A started the work. C joined him after 1 day and B joined them after 3 days of the beginning. For how many days did C work?

1. 20 2. 15 3. 16 4. 13

Q.17)-

A is 40% more efficient than B. If B finishes a work in 14 days, then in how many days will A finish the same work?

1. 9 2. 8.4 3. 10.5 4. 10

Q.18)-

The average weight of 18 boxes in a boat is increased by 2.5 kg when one of the boxes weighing 75 kg is replaced by a new box. The weight (in kg) of the new box is:

1. 120 2. 150 3. 97 4. 108

Q.19)-

If $x = 3 - 4y$, then $(x^3 + 64y^3 + 36xy)$ is equal to:

1. 27 2. $27(1+xy)$ 3. $9(3+5xy)$ 4. $27(1+3xy)$

Q.20)-

A customer paid ₹306 for an item after availing successive discounts of 10% and 15%. What is the marked price of the item (in ₹)?

1. 331 2. 420 3. 384.50 4. 400

Q.21)-

A earns ₹2,250 in a day if he works for 8 hours a day. B earns ₹3,750 per day if he works for 6 hours a day. The ratio of the per hour wages of A to that of B is:

1. 9 : 20 2. 11 : 17 3. 15 : 28 4. 7 : 19

Q.22)-

The three successive discounts of 18%, 12% and 10% is equivalent to a single discount of:

1. 33.978% 2. 31.605% 3. 37.509% 4. 35.056%

Q.23)-

A sold an article to B at 25% profit, B sold it to C at a 12% loss. If C paid ₹1,815 for the article, how much (in ₹) did A pay for the article?

1. 1,560 2. 1,600 3. 1,500 4. 1,650

Q.24)-

A woman invested in a private company fund, a total sum of ₹10,25,000 in the names of her son and daughter aged 13 years and 15 years, respectively, such that they get an equal amount when they are of 18 years. If the company gives 20% compound interest compounded annually, then how much money (in ₹, to the nearest whole number) should be deposited in the name of her son?

1. 6,25,000 2. 4,20,082 3. 5,50,500 4. 3,55,048

Q.25)-

After a price increase of 23%, a television set costs ₹56,703. What was its original price (in ₹)?

1. 51,100 2. 46,100 3. 48,540 4. 47,000

Answer key

Q.1	1	Q.2	4	Q.3	4	Q.4	1	Q.5	2
Q.6	3	Q.7	1	Q.8	2	Q.9	3	Q.10	2
Q.11	1	Q.12	1	Q.13	2	Q.14	3	Q.15	1
Q.16	2	Q.17	4	Q.18	1	Q.19	1	Q.20	4
Q.21	1	Q.22	4	Q.23	4	Q.24	2	Q.25	2



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

02/02/2022-> (3:00 PM - 4:00 PM)

Quantitative Aptitude

Q.1)-

In a 1000 km trip, a man drives at a speed of 50 km/h for the first five-eighth of the total distance. If he completes the whole journey in 19 hours (resting time not included), what is his speed (in km/h, correct up to 1 decimal place) for the rest of the journey?

1. 60.2 2. 57.7 3. 65.8 4. 55.5

Q.2)-

A museum has an average of 340 visitors on Sunday and 160 on other days. What is the average number of visitors per day in the month of June beginning with Sunday?

1. 200 2. 210 3. 190 4. 184

Q.3)-

A certain sum amounts to ₹8,192 in $3\frac{1}{2}$ years and to ₹9,472 in 6 years, at simple interest at a certain rate per cent p. a. The rate of interest p.a. and the sum are _____ and _____, respectively.

1. 8.5%; ₹6,000 2. 8.5%; ₹6,400 3. 8%; ₹6,400 4. 8%; ₹6,500

Q.4)-

The income of X is 15% less than that of Y and the income of Z is 60% less than the combined income of X and Y. By what per cent is the income of Z less than the income of X? (Correct to one decimal place)

1. 14.7% 2. 12.6% 3. 12.9% 4. 14.9%

Q.5)-

The breadth of a rectangular field is 7.5 m shorter than its length. One-third of the breadth is equal to one-fourth of the length of the rectangle. What is the average (in m, to the nearest integer) of its length and breadth?

- 1.** 26 **2.** 30 **3.** 23 **4.** 25

Q.6)-

In a class of 60 students (boys and girls), there are 60% girls. In an examination, the average score of the boys is 52 and that of the girls is 65. What is the average score of the whole class?

- 1.** 58.7 **2.** 61.5 **3.** 56.9 **4.** 59.8

Q.7)-

A 280 m long train is running at a speed of 54 km/h. In how much time (in seconds) will it cross a man moving at 12 km/h in the same direction as that of the train?

- 1.** 28 **2.** 20 **3.** 25 **4.** 24

Q.8)-

A sum of ₹6,300 amounts to ₹8,085 at a certain rate percent p.a. in $3\frac{1}{3}$ years, at simple interest. What will be the simple interest (in ₹) on a sum of ₹8,000 at the same rate for $4\frac{2}{5}$ years?

- 1.** 2,448 **2.** 1,632 **3.** 2,992 **4.** 2,880

Q.9)-

A and B can do a piece of work in 24 days and 48 days, respectively. Working together, they completed the work in 12 days with the help of C. How long (in days) will C take to do five-sixth of the work all by himself?

- 1.** 36 **2.** 54 **3.** 48 **4.** 40

Q.10)-

A can do a work in 10 days. He worked for 6 days and left the work. The remaining work was done by B in 8 days. In how many days can B alone do 65% of the work?

- 1.** $13\frac{1}{2}$ **2.** 12 **3.** 13 **4.** 14

Q.11)-

If A : B = 1.2 : 2.5 and B : C = 1 : 1.4, what is A : B : C?

- 1.** 6 : 15 : 35 **2.** 1.2 : 2.5 : 4 **3.** 12 : 25 : 35 **4.** 3 : 5 : 4

Q.12)-

What is the area (in m^2) of a circular path of uniform width of 1.4 m surrounding a circular garden of diameter 126 m?

(Take $\pi = \frac{22}{7}$)

1. 556.16 2. 564.96 3. 560.56 4. 604.56

Q.13)-

A cupboard was sold at a profit of 25%. Had it been sold at ₹360 less, the profit would have been only 5%. What should be the selling price (in ₹) of the cupboard, so that there is a profit of 40%?

1. 2,150 2. 2,520 3. 1,800 4. 3,020

Q.14)-

A person sold a pen drive for ₹1,674 and incurred a loss of 7%. At what price (in ₹) should it be sold to earn a profit of 11%?

1. 2,000 2. 1,800 3. 1,965 4. 1,998

Q.15)-

A certain sum is divided between A, B and C, such that the ratio of shares of A and C is 7 : 5 and that of C and B is 8 : 3. If the difference between the shares of A and B is ₹984, then the sum (in ₹) is:

1. 2,640 2. 2,520 3. 2,664 4. 2,592

Q.16)-

A shopkeeper mixes three varieties of tea costing ₹60 per kg, ₹80 per kg and ₹120 per kg in the ratio 5 : 8 : 7. At what price (in ₹) per kg should he sell the tea mixture to earn a 25% profit?

1. 86.67 2. 100.33 3. 111.25 4. 104.50

Q.17)-

Find the value of $98.2^2 - 88.2^2$.

1. 1864 2. 100 3. 1846 4. 186.4

Q.18)-

If $1.7\% \text{ of } 800 \times 2.5\% \text{ of } a = 382.5$, then the value of a is:

1. 1100 2. 1075 3. 1125 4. 1150

Q.19)-

If the eight-digit number $9534x37y$ is divisible by 24, then what is the value of $(3x + y)$, for the largest value of x ?

1. 21 2. 24 3. 30 4. 32

Q.20)-

If $x^{\frac{1}{3}} - y^{\frac{1}{3}} = z^{\frac{1}{3}}$, then find the value of $(x - y - z)^3 - 27xyz$.

1. 0 2. 1 3. -1 4. 27

Q.21)-

A shopkeeper sells an article for ₹319.20 after offering a discount of 5% on its marked price. Had he not given the discount, he would have earned a profit of 12%. The cost price (in ₹) of the article is:

1. 280 2. 250 3. 240 4. 300

Q.22)-

A certain sum of money becomes 5 times in 15 years when invested at simple interest. In how much time (years and months) will it become 12 times of itself at the same rate of simple interest?

1. 41 years 3 months 2. 39 years 9 months 3. 40 years 6 months 4. 42 years 4 months

Q.23)-

Find the value of $\sqrt{4p^3 + 14p + 6}$ such that a 6-digit number 602p0p is divisible by 9.

1. 26 2. 22 3. 24 4. 28

Q.24)-

An electronic store marks a television set for ₹86,500 and allows a discount of 9% on it. What is the selling price (in ₹) of the television set?

1. ₹79,570 2. ₹77,520 3. ₹76,480 4. ₹78,715

Q.25)-

If $(3x - 10)\%$ of 150 exceeds $x\%$ of 300 by 15, then by what per cent is $(2x + 5)\%$ of 220 more than $(x + 10)\%$ of 250?

1. 32% 2. 35% 3. 24.2% 4. 28.4%

Answer key

Q.1	2	Q.2	3	Q.3	3	Q.4	3	Q.5	1
Q.6	4	Q.7	4	Q.8	3	Q.9	4	Q.10	3
Q.11	3	Q.12	3	Q.13	2	Q.14	4	Q.15	3
Q.16	3	Q.17	1	Q.18	3	Q.19	3	Q.20	1
Q.21	4	Q.22	1	Q.23	3	Q.24	4	Q.25	1



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

03/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

What is the average of prime numbers lying between 7 and 37?

1. $18\frac{3}{4}$ 2. $20\frac{3}{7}$ 3. $20\frac{1}{3}$ 4. $19\frac{2}{3}$

Q.2)-

If $x^2 + y^2 + z^2 + 26 = 2(4x + y + 3z)$, then find the value of $x + y + z$.

1. 6 2. 8 3. 2 4. 4

Q.3)-

At a particular time, the length of the shadows of a pole and that of a tower are, respectively, 12 m and 27 m. If the height of the pole is 24 m, what is the height (in m) of the tower?

1. 54 2. 36 3. 63 4. 45

Q.4)-

A man buys an article at 16 for ₹1,200 and an equal number of articles at 12 for ₹960. He sells all the articles at 15 for ₹1,350. His profit percentage in the entire transaction is (correct to one decimal place):

1. 15.2% 2. 14.8% 3. 16.1% 4. 15.8%

Q.5)-

A and B can do a certain work in 25 and 20 days, respectively. They work together for 4 days. The remaining work is completed by C in 8 days. C alone can complete 40% of the original work in:

1. 4 days 2. 8 days 3. 6 days 4. 5 days

Q.6)-

Ajay bought a camera for ₹5,400 and sold it at a profit of 18%. What is the selling price (in ₹) of the camera?

1. 6,084 2. 7,055 3. 6,372 4. 5,892

Q.7)-

If $a + b = \frac{3}{4}$ and $ab = \frac{1}{8}$, then the value of $a^4 + b^4 + ab^3 + ba^3$ is:

1. $\frac{27}{128}$ 2. $\frac{9}{256}$ 3. $\frac{9}{64}$ 4. $\frac{27}{256}$

Q.8)-

The ratio of the number of animals in zoo A to the number of animals in zoo B is 6 : 5. If zoo B has 65 animals in the beginning, how many animals must be transferred from zoo A to B so that the ratio of animals in zoo A and zoo B becomes 6 : 7?

1. 11 2. 10 3. 13 4. 12

Q.9)-

The average of 9 consecutive numbers is 20. The smallest of these numbers is:

1. 12 2. 20 3. 16 4. 10

Q.10)-

Six years ago, the ratio of ages of A and B was 7 : 8. After 2 years from now, the ratio of their ages will be 9 : 10. What is the sum of the present ages (in years) of A and B?

1. 57 2. 87 3. 72 4. 102

Q.11)-

A shopkeeper earns a profit of 26% on the cost price of an article after giving two successive discounts of 20% and 30% on the marked price to a customer. What would have been the profit percentage, had the shopkeeper given 26% discount only?

1. 44% 2. 66.5% 3. 56% 4. 50.5%

Q.12)-

What is the maturity amount if ₹40,000 is invested for 2 years, the rate of compound interest (compounded annually) being 8% for the first year and 10% for the second year?

1. 48,400 2. 49,550 3. 45,270 4. 47,520

Q.13)-

A shopkeeper sold two articles for ₹560 each. He incurred no loss and made no profit in the transaction because one article was sold at a loss of $16\frac{2}{3}\%$ and the other article was sold at a profit of:

1. 25% 2. $20\frac{1}{3}\%$ 3. 20% 4. $16\frac{2}{3}\%$

Q.14)-

If the five-digit number $570xy$ is divisible by 231, then what is the value of $(2x - y)$?

1. 6 2. 5 3. 7 4. 3

Q.15)-

The cost price of an article is ₹450. The trader marks it at ₹630 and sells it by giving 12.5% discount on the marked price. His gain per cent is:

1. 24% 2. 22.5% 3. 25% 4. 20.5%

Q.16)-

What is the compound interest (in ₹) on ₹80,000 for 3 years when the rate of interest is 5%, 8% and 10% per annum for the 3 successive years, the interest being compounded annually?

1. 20,500 2. 18,000 3. 20,000 4. 19,792

Q.17)-

A 200 m long train crosses a pole in 10 seconds. Another train of length 250 m crosses a platform which is 200 m long in 15 seconds. If both trains move in opposite directions, how much time (in seconds) will they take to cross each other completely?

1. 8 2. 10 3. 9 4. 6

Q.18)-

The average weight of some children in a group was 42 kg. When 5 children of average weight 48 kg join the group or 5 children of average weight 37 kg leave the group, the average weight of children in both cases remains equal. How many children were there in the group initially?

1. 25 2. 35 3. 45 4. 55

Q.19)-

The length (in m) of the longest pole that can be fitted in a room of dimensions 24 m \times 12 m \times 3 m is:

1. 30 2. 27 3. 32 4. 28

Q.20)-

A takes 42 hours to complete a work. B completes the same work in two-third of the time taken by A. What fraction of the work will they do in 14 hours?

1. $\frac{2}{3}$ 2. $\frac{2}{5}$ 3. $\frac{5}{6}$ 4. $\frac{3}{5}$

Q.21)-

If a number N is divisible by 3, then which of the following is true?

1. $(N+12)$ is divisible by 3 2. N^2 is divisible by 6 3. $(N+6)$ is divisible by 6 4. $(N+2)$ is divisible by 3

Q.22)-

The population of a town increased from 268000 in 2007 to 375200 in 2010. What is the percentage increase in the population of the town in three years?

1. 30% 2. 32% 3. 40% 4. 28%

Q.23)-

The price of an item increased by 10%. Anil planned to increase the expenditure on it by 5%. By what percentage must its consumption be reduced so that the expenditure on it is met within the increased amount allocated for it?

1. $4\frac{6}{11}\%$ 2. 4% 3. 5% 4. $4\frac{5}{11}\%$

Q.24)-

A man borrowed a sum of ₹30,000 at 7.5% per annum simple interest. How much money (in ₹) will he pay at the end of 5 years to clear his debt?

1. 36,000 2. 35,225 3. 41,250 4. 39,750

Q.25)-

A train covers the distance between two stations in 220 minutes. If the distance between the two stations is 484 km, what is the speed of the train in km/h?

1. 115 2. 105 3. 132 4. 120

Answer key

Q.1	2	Q.2	2	Q.3	1	Q.4	3	Q.5	4
Q.6	3	Q.7	4	Q.8	4	Q.9	3	Q.10	3
Q.11	2	Q.12	4	Q.13	1	Q.14	4	Q.15	2
Q.16	4	Q.17	3	Q.18	4	Q.19	2	Q.20	3
Q.21	1	Q.22	3	Q.23	1	Q.24	3	Q.25	3



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

03/02/2022-> (12:00 PM - 1:00 PM)

Quantitative Aptitude

Q.1)-

The profit earned by a company is to be divided among three friends A, B and C, who invested their money in the company, in the ratio of 9 : 12 : 19. The share of the person who invested the most is ₹5,244. What amount (in ₹) does A get?

1. 2,684 2. 2,844 3. 2,484 4. 2,544

Q.2)-

If the cost price of 18 articles is equal to the selling price of 15 articles, then what is the profit percentage?

1. 18% 2. 30% 3. 25% 4. 20%

Q.3)-

A car travels at 60 km/h for the first 40 minutes, at 75 km/h for the next 80 minutes and at 80 km/h for the next 12 minutes. What is the average speed (in km/h) of the car?

1. $61\frac{9}{11}$ 2. $71\frac{2}{3}$ 3. $71\frac{1}{3}$ 4. $70\frac{10}{11}$

Q.4)-

In June 2020, a salesman sold an average of 210 toys per day. If for the first 12 days, the average sales of toys per day were 180 and for the next 8 days, the average sales per day were 215, then what was his average sale (per day) of the toys for the remaining days of the month?

1. 235 2. 242 3. 240 4. 237

Q.5)-

The income of A is 48% more than that of B and the income of C is 50% of the combined income of A and B. By what per cent is the income of A more than that of C? (Correct to one decimal place)

1. 19.4 2. 18.6 3. 20.3 4. 16.2

Q.6)-

If 50 men working 8 hours a day can complete a work in 20 days, then in how many days will 32 men working 10 hours a day complete the same work?

1. 24 2. 16 3. 30 4. 25

Q.7)-

A shopkeeper marks his goods 25% above the cost price and allows 20% discount. Find his profit percentage.

1. 0% 2. 2% 3. 4% 4. 5%

Q.8)-

In a test match, a batsman scored 30% of his total runs by hitting sixes, 25% of his total runs by hitting boundaries (each boundary = 4 runs), and rest by hitting singles and doubles. If he scored 20 runs by hitting boundaries, what percentage of the runs by hitting sixes were the runs by hitting boundaries?

1. $80\frac{2}{3}\%$ 2. 60% 3. $83\frac{1}{3}\%$ 4. 72%

Q.9)-

A 270 m long train crosses a man standing on a platform in 24 seconds. How much time (in seconds) will it take to cross a 330 m long train travelling at 39.5 km/h in the opposite direction?

1. 25 2. 27 3. 28 4. 30

Q.10)-

A sum of ₹8,600 amounts to ₹9,589 in $2\frac{1}{2}$ years at $x\%$ p.a. simple interest. What will be the amount of the same sum in $4\frac{1}{5}$ years at $(x + 0.4)\%$ p.a.?

1. ₹10,205 2. ₹10,406 3. ₹10,384 4. ₹10,300

Q.11)-

When a number is divided by 13, it leaves the remainder 6. What will be the remainder when the square of the same number is divided by 13?

1. 12 2. 10 3. 9 4. 11

Q.12)-

What is the average of all the prime numbers between 70 and 90?

1. 79 2. 81.6 3. 78.66 4. 80

Q.13)-

Find the value of: $0.78^3 + 0.22^3 + 3(0.78)(0.22) + 1$.

1. 1 2. 4 3. 2 4. 8

Q.14)-

A sum of ₹26,550 is divided among 3 men, 2 women and 6 girls in such a way that each man, each woman and each girl get money in the ratio 2 : 3 : 1. How much money does each man get (in ₹)?

1. 2,950 2. 5,900 3. 1,475 4. 3,200

Q.15)-

The simple interest on a sum of money at 15% per annum for 2 years is ₹2,700. Compounded annually, what would be the compound interest (in ₹) on the same sum for the same period and at the same rate of interest?

1. 2,920.50 2. 2,209.50 3. 2,290.50 4. 2,902.50

Q.16)-

The average of 9 numbers arranged in ascending order is 18. If the average of the first five numbers is 16 and the average of the last five numbers is 19, then what is the fifth number?

1. 17 2. 12 3. 15 4. 13

Q.17)-

A six-digit number of the form ababab is always divisible by:

1. 10101 2. 11111 3. 10001 4. 11001

Q.18)-

A trader bought 40 kg of rice for ₹2,100. He sold it at a profit equal to the selling price of 5 kg of it. What is the selling price (in ₹) of 8.5 kg of rice?

1. 527 2. 510 3. 476 4. 493

Q.19)-

The simple interest on a certain amount of money is 45% of the principal amount. The time for which the money was lent is four-fifth of the numerical value of the rate percent per annum. What is the rate percent per annum?

1. 9.5% 2. 12% 3. 7.5% 4. 15%

Q.20)-

A takes four times as much as B and thrice as much as C to finish a piece of work. If they work together, they finish the work in 24 days. Which of the following is true?

1. A is most efficient; takes 40 days 2. C is most efficient; takes 64 days 3. B is most efficient; takes 48 days 4.

B and C are most efficient; take 36 days

Q.21)-

The sides of two squares are in the ratio 2 : 3 and the sum of their perimeters is 180 cm. Find the area of the larger square (in cm^2).

1. 729 2. 324 3. 225 4. 900

Q.22)-

A man sold his scooter for ₹16,200 and lost one-tenth of its selling price. What is its cost price (in ₹)?

1. 20,320 2. 19,580 3. 17,820 4. 18,480

Q.23)-

A shopkeeper sells an article at 18% loss. What is its marked price (in ₹) if it is sold at ₹5,740?

1. 5,890 2. 6,000 3. 4,706 4. 7,000

Q.24)-

In an election between two contestants, 25% of the votes were invalid and one contestant got 45% of the total valid votes. If the total number of votes was 16,00,000, the number of valid votes that the winning contestant got, was:

1. 6,50,000 2. 7,00,000 3. 6,60,000 4. 7,10,000

Q.25)-

If $x + \frac{1}{x} = 4$, then find the value of $x^3 + \frac{1}{x^3}$.

1. 48 2. 64 3. 42 4. 52

Answer key

Q.1	3	Q.2	4	Q.3	4	Q.4	2	Q.5	1
Q.6	4	Q.7	1	Q.8	3	Q.9	2	Q.10	2
Q.11	2	Q.12	1	Q.13	3	Q.14	1	Q.15	4
Q.16	4	Q.17	1	Q.18	2	Q.19	3	Q.20	3
Q.21	1	Q.22	3	Q.23	4	Q.24	3	Q.25	4



SSC Selection Post Phase-ix

Matriculation Level compilation (RBE)

03/02/2022-> (3:00 PM - 4:00 PM)

Quantitative Aptitude

Q.1)-

The cost price of a shirt is ₹450. A shopkeeper marks its price in such a way that he earns a profit of 24% after giving 25% discount on its marked price. The marked price (in ₹) of the shirt is:

1. 670.50 2. 675 3. 730.80 4. 744

Q.2)-

Eight men can complete a work in 54 days. In how many days will 6 men and 12 boys complete the same work if one man works as much as 2 boys?

1. 24 2. 40 3. 36 4. 30

Q.3)-

Pipes A and B can fill a tank in 4 hours and 6 hours 40 minutes, respectively; whereas a third pipe C can empty the full tank in 1 hour 40 minutes. A and B are opened at 2:00 p.m. and 3:00 p.m., respectively and C is opened at 4:00 p.m. The tank will be completely empty at:

1. 7:15 p.m. 2. 7:10 p.m. 3. 7:00 p.m. 4. 7:20 p.m.

Q.4)-

If $x + \frac{1}{x} = 1 - \sqrt{2}$, then find the value of $x^3 + \frac{1}{x^2}$.

1. $2 - \sqrt{2}$ 2. $4 + 2\sqrt{2}$ 3. $2\sqrt{2} - 4$ 4. $4 - 2\sqrt{2}$

Q.5)-

What is the third proportional to 12 and 54?

1. 4.5 2. $18\sqrt{2}$ 3. 243 4. 42

Q.6)-

A shopkeeper allows series of discounts of 20%, 10% and 15%. How much will a customer have to pay for the item marked at ₹1,000?

1. ₹612 2. ₹550 3. ₹628 4. ₹620

Q.7)-

The difference between 80% and 65% of the same number is 135. What is 49% of the same number?

1. 490 2. 539 3. 441 4. 392

Q.8)-

The ratio of the incomes of A and B is 3 : 4. The ratio of their expenditure is 7 : 10. If A and B save ₹2,500 and ₹3,000, respectively, then what is the ratio of the income of B to the combined expenditure of A and B?

1. 5 : 7 2. 16 : 17 3. 17 : 18 4. 11 : 13

Q.9)-

What will be the amount (in ₹) of a sum of ₹6,000 in $2\frac{1}{4}$ years at $13\frac{1}{3}\%$ p.a. if the interest is compounded 9-monthly?

1. 7,869 2. 7,896 3. 7,986 4. 8,429

Q.10)-

The average of 15 numbers is 30, while the average of 13 of these numbers is 32. If the remaining two numbers are equal, then what is each of the two numbers?

1. 17 2. 34 3. 31 4. 16

Q.11)-

If $N = (307)^{38} + (524)^{20}$, then what is the unit digit of N?

1. 6 2. 5 3. 4 4. 3

Q.12)-

The area of a triangular plot, whose sides are 100 m, 105 m and 145 m, is equal to a rectangular field, whose sides are in the ratio 7 : 10. The perimeter (in m) of the rectangular field is:

1. $340\sqrt{3}$ 2. $170\sqrt{3}$ 3. $170\sqrt{5}$ 4. $340\sqrt{5}$

Q.13)-

Find the sum of the greatest and the smallest number which may replace k in the number 8130k36 so that the number is divisible by 8.

1. 10 2. 9 3. 8 4. 12

Q.14)-

The ratio of the incomes of A and B is 5 : 7 and their savings are ₹5,000 and ₹9,000, respectively. If the ratio of their expenditures is 3 : 4, then what is the sum of the incomes (in ₹) of A and B?

1. 72,000 2. 60,000 3. 84,000 4. 96,000

Q.15)-

What is the average of the first 8 multiples of 8?

1. 34 2. 36 3. 32 4. 33

Q.16)-

The average of the first three numbers out of four numbers is 18 and that of the last three numbers is 20. If the last number is 25, what is the first number?

1. 36 2. 28 3. 35 4. 19

Q.17)-

A car covers a certain distance at a constant speed of 45 km/h in 4 hours. If the car moves at a speed of 40 km/h, how much more time (in minutes) will it take to cover the same distance?

1. 40 2. 25 3. 20 4. 30

Q.18)-

A vegetable dealer buys 50 carrots for ₹36, and sells 36 carrots for ₹50. His profit percentage (correct to one decimal place) is:

1. 74.9% 2. 92.9% 3. 66.9% 4. 87.7%

Q.19)-

A shopkeeper sold an item at 20% gain. Had he bought it ₹50 cheaper and sold it at the same price, he would have gained 25%. Find the cost price of the item (in ₹).

1. 1,150 2. 1,250 3. 1,100 4. 1,000

Q.20)-

If $x + \frac{1}{x} = 5$, then find the value of $x^2 + \frac{1}{x^2}$.

1. 23 2. 10 3. 22 4. 20

Q.21)-

What is the difference between the compound interest on a sum of ₹10,000 at 12% p.a. for $1\frac{1}{4}$ years when the interest is compounded annually and when the interest is compounded 5-monthly? (nearest to a ₹)

1. 35 2. 42 3. 40 4. 36

Q.22)-

A woman cycles 30 km in 1 hour 45 minutes. A part of her journey is on a level road 18 km long, and the remaining journey is uphill. If the woman's average speed on the level road is 24 km/h, what is her uphill speed (in km/h)?

1. 12 2. 10 3. 15 4. 20

Q.23)-

By selling a wall clock for ₹3,034, a shopkeeper loses 18%. If he wishes to make a profit of 18%, what should be the selling price (in ₹) of the clock?

1. 5,488 2. 4,500 3. 4,366 4. 3,920

Q.24)-

A borrowed ₹58,000 from B at 8% per annum simple interest for 2 years. He lent the same sum to C at 10% per annum compound interest, compounded annually for 2 years. How much did he earn (in ₹) in the transaction at the end of 2 years?

1. 2,750 2. 3,000 3. 2,800 4. 2,900

Q.25)-

Amit saves 20% of his income. If his income increases by 38% and expenditure increases by 60%, then by what per cent does his saving increase/decrease?

1. 100% (decrease) 2. 50% (decrease) 3. 22% (increase) 4. 50% (increase)

Answer key

Q.1	4	Q.2	3	Q.3	1	Q.4	4	Q.5	3
Q.6	1	Q.7	3	Q.8	2	Q.9	3	Q.10	1
Q.11	2	Q.12	2	Q.13	1	Q.14	3	Q.15	2
Q.16	4	Q.17	4	Q.18	2	Q.19	2	Q.20	1
Q.21	3	Q.22	1	Q.23	3	Q.24	4	Q.25	2



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

04/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

The cost price of an article is 16% less than its selling price. What is the profit or loss percentage (to the nearest integer)?

1. Profit, 16% 2. Loss, 19% 3. Loss, 16% 4. Profit, 19%

Q.2)-

An item marked at ₹3,550 is offered at $k\%$ discount for ₹3,124. If the discount offered is reduced to $(k-4)\%$, then at what price will the item be available to customers?

1. ₹3,266 2. ₹3,249 3. ₹3,262 4. ₹3,250

Q.3)-

The average weight of P and his four friends is 52.4 kg. If P is 3 kg lighter than the average of his four friends, then what is P's weight (in kg)?

1. 50 2. 48 3. 53 4. 51

Q.4)-

The difference between the compound interest and simple interest on ₹x at a rate of 8.5% per annum for 2 years is ₹260.10. What is the value of x?

1. 36,000 2. 38,000 3. 35,000 4. 34,000

Q.5)-

The average of 11 numbers is 25. If the average of 6 of these numbers is 24, then what is the average of the remaining 5 numbers?

1. 25.2 2. 25.6 3. 26.2 4. 26

Q.6)-

What is the mean proportional between 2.5 and 0.625?

1. 12.5 2. 0.125 3. 0.0015625 4. 1.25

Q.7)-

A man borrowed money for 2 years and paid back in two equal annual instalments of ₹2,260 at 5% compound interest, compounded annually. What was the sum (in ₹, to the nearest tens) borrowed?

1. 4,420 2. 4,520 3. 4,300 4. 4,200

Q.8)-

If the five-digit number $602xy$ is divisible by 7 and 33, then the value of $(8x - 3y)$ is:

1. 59 2. 69 3. 61 4. 56

Q.9)-

There are three inlet pipes X, Y and Z in a tank. X and Y can fill the tank in 45 hours. Y and Z can fill the tank in 36 hours. Z and X can fill the tank in 72 hours. The number of hours in which all the three pipes can fill the tank, if operated simultaneously, is:

1. $15\frac{15}{23}$ 2. $31\frac{7}{23}$ 3. $15\frac{7}{23}$ 4. $31\frac{15}{23}$

Q.10)-

What is the single discount equivalent to the three successive discounts of 10%, 40% and 25%?

1. 59.5% 2. 65.5% 3. 45.5% 4. 37.5%

Q.11)-

A tap can fill a tank in 6 hours. After 4 hours it was found that only 60% of the tank is full due to a leakage at the bottom which was then immediately repaired. In how much time will the tank be completely filled?

1. 6 hours 40 minutes 2. 6 hours 3. 6 hours 30 minutes 4. 6 hours 24 minutes

Q.12)-

The average weight of some persons in a club was 80 kg. Seven persons with average weight 85.2 kg joined the club and at the same time 2 persons with average weight 72.7 kg left the club. The average weight of all the persons in the group increased by 1.02 kg. How many people were there initially in the club?

1. 45 2. 55 3. 50 4. 60

Q.13)-

Two years ago, a survey showed that 2400 students at a college were able to use computers at home. This year the survey revealed an increase of 30% in the number of students who have access to computers at home. How many students now have access to computers at home?

1. 3000 2. 2820 3. 720 4. 3120

Q.14)-

What is n if 16, n and 49 are in continued proportion?

1. 32.5 2. $\frac{7}{4}$ 3. 28 4. $\frac{4}{7}$

Q.15)-

A part of a journey is covered in 10 hours at 96 km/h and the remaining part of it is covered in 8 hours 30 minutes at 80 km/h. What is the total length of the journey (in km)?

1. 1,640 2. 1,760 3. 1,500 4. 2,000

Q.16)-

Sujatha purchased two articles for a total of ₹1,080. By selling one at a profit of 25% and the other at a loss of 20%, she neither gains nor incurs a loss. What is the difference (in ₹) between the cost price of the two articles?

1. 150 2. 120 3. 100 4. 80

Q.17)-

A boat can move 35 km upstream and the same distance downstream in a total time of 8 hours. If the speed of the boat in still water is 9 km/h, then the speed (in km/h) of the stream is:

1. 1.5 2. 2 3. 3 4. 2.5

Q.18)-

A shopkeeper sold an item for ₹495 with 10% profit. In order to earn 16% profit, by how much (in ₹) should he increase the selling price?

1. 27 2. 32 3. 30 4. 25

Q.19)-

In a medical institute, the strength of the students in the first two classes are in the ratio of 8 : 17. The ratio of the number of students in the second and the third classes is 2 : 3. What is the average of the number of students in the first and third classes, if the number of students in the second class is 612?

1. 603 2. 288 3. 828 4. 918

Q.20)-

A wholesaler bought an item from a manufacturer for ₹5,000 and sold it to a retailer at 20% profit. The retailer sold it to a customer at 10% profit. If the customer buys the item from the manufacturer itself, how much money (in ₹) will he save?

1. 1,500 2. 1,600 3. 1,800 4. 1,550

Q.21)-

If $(2x + 3y)^3 - (2x - 3y)^3 = 3y[Ax^2 + By^2]$, then what is the value of $(A - B)$?

1. 3 2. 6 3. 12 4. 9

Q.22)-

What is the area (in m^2) of a rectangular field having one side 35 m and one diagonal 37 m?

1. 450 2. 1225 3. 1295 4. 420

Q.23)-

Find the smallest number which should be added to 1234 to get a number divisible by 45.

1. 16 2. 1 3. 8 4. 26

Q.24)-

A man invested ₹7,050 for 5 years at the rate of 8% simple interest per annum. What will be two-third of the money (in ₹) that he will get on maturity?

1. 5,550 2. 2,820 3. 9,870 4. 6,580

Q.25)-

If $x^3 - y^3 = 40$ and $x - y = 4$, then find the value of xy .

1. -60 2. 2 3. -2 4. 60

Answer key

Q.1	4	Q.2	1	Q.3	1	Q.4	3	Q.5	3
Q.6	4	Q.7	4	Q.8	2	Q.9	2	Q.10	1
Q.11	4	Q.12	1	Q.13	4	Q.14	3	Q.15	1
Q.16	2	Q.17	1	Q.18	1	Q.19	1	Q.20	2
Q.21	2	Q.22	4	Q.23	4	Q.24	4	Q.25	3



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

04/02/2022-> (12:00 PM - 1:00 PM)

Quantitative Aptitude

Q.1)-

The speed of a boat in still water is 15 km/h and the speed of the current is one-third the speed of the boat in still water. How much time will it take to go 24 km upstream and 20 km downstream, assuming that no time is lost in changing direction?

1. 3 hours 20 minutes 2. 3 hours 3. 3 hours 24 minutes 4. $3\frac{1}{2}$ hours

Q.2)-

A shopkeeper allows a discount of 10% on an item. How much per cent above the cost price should he mark his goods to make a profit of 10%?

1. $21\frac{1}{2}\%$ 2. 22% 3. 20% 4. $22\frac{2}{9}\%$

Q.3)-

If each side of a square field is increased by 12%, then by what percentage has the area of the field increased?

1. 30.12% 2. 25.44% 3. 11.44% 4. 21.32%

Q.4)-

Find the value of $\frac{m(m^2+3m+3)+1}{m(m+2)+1}$ when $m = 87$.

1. 88 2. 87 3. 90 4. 96

Q.5)-

Pipes A and B can fill a tank in 16 hours and 24 hours, respectively, whereas pipe C alone can empty the full tank in x hours. When all the 3 pipes are opened together, the tank is full in $20\frac{4}{7}$ hours. What is the value of x?

1. 12 2. 18 3. 15 4. 20

Q.6)-

A sum of ₹8,520 is divided between A, B, C and D in the ratio $\frac{1}{2} : \frac{1}{4} : \frac{2}{5} : \frac{5}{8}$. What is the difference between shares of B and D?

1. ₹1,800 2. ₹1,600 3. ₹1,080 4. ₹2,000

Q.7)-

The selling price of a chair is $\frac{46}{25}$ times its cost price. What is the gain percentage in the transaction?

1. $33\frac{2}{3}\%$ 2. 84% 3. $25\frac{1}{2}\%$ 4. 46%

Q.8)-

Find the value of $\sqrt{2p^2 + 4}$ such that a 6-digit number 52p304 is divisible by 11.

1. 8 2. 4 3. 6 4. 5

Q.9)-

The average height of a group of 9 students is 168 cm. Two more students of height 174 cm and 184 cm join the group. What is the new average (in cm)?

1. 167 2. 172 3. 165 4. 170

Q.10)-

If a sum of ₹7,13,700 is divided into 3 parts so that their amounts after 2, 3 and 4 years, respectively, be equal, the rate of interest being 5% per annum at simple interest, then the first part (in ₹) is:

1. 2,37,600 2. 2,28,400 3. 2,48,400 4. 2,73,240

Q.11)-

At what rate of simple interest per annum (correct to one decimal place) is the interest earned for 11 months on a certain sum of money 0.08 times the principal amount?

1. 8.2% 2. 9.3% 3. 8.7% 4. 11.2%

Q.12)-

A can do three-fourth of a work in 12 days and B can do four-fifth of the same work in 20 days. In how many days can they complete the whole work, working together?

1. $10\frac{2}{5}$ 2. $9\frac{31}{41}$ 3. $9\frac{1}{2}$ 4. 10

Q.13)-

A sells a washing machine to B at a 15% loss. B sells it for ₹6,120 and gains 20%. What is the cost price (in ₹) of the washing machine for A?

1. 6,040 2. 5,980 3. 6,000 4. 5,960

Q.14)-

A man runs at a speed of 6 km/h. He takes 30 minutes rest at the end of every 4 km. How long (in hours) will he take to cover 15 km?

1. 3 2. 2.5 3. 3.5 4. 4

Q.15)-

The ratio of boys to girls in a school having 1440 students is 3 : 5. Thirty girls were shifted to the other branch of the school. How many more boys should be admitted to the school to make this ratio 2 : 3?

1. 40 2. 35 3. 45 4. 32

Q.16)-

Find the greatest 5-digit number divisible by 12.

1. 99988 2. 99999 3. 99996 4. 99998

Q.17)-

The average weight of 29 students in a class is 54 kg. Five students of average weight 52.8 kg leave the class and 6 students of average weight 55 kg join the class, what is the average weight (in kg) of students now?

1. 53.9 2. 54.2 3. 53.8 4. 54.4

Q.18)-

A number is decreased by 24% and then increased by 18%. What is the net increase or decrease per cent in the number?

1. 17.51% decrease 2. 10.32% decrease 3. 11.14% increase 4. 18.97% increase

Q.19)-

The cost price of an article is ₹120. A dealer marks it 35% above its cost price. If he sells it after giving a 15% discount on its marked price, then his profit per cent is?

1. 15% 2. $14\frac{1}{3}\%$ 3. 10% 4. $14\frac{3}{4}\%$

Q.20)-

Simplify $\frac{0.32 \times 0.72 \times 0.56}{(0.32)^2 + (0.24)^2 - (0.56)^2}$:

1. -1 2. $\frac{1}{3}$ 3. 1 4. 3

Q.21)-

The average age of 4 members of a family is 35 years. Their ages are in the ratio $8 : 7 : 1 : 12$. What is the age of the oldest member of the family (in years)?

1. 40 2. 75 3. 60 4. 50

Q.22)-

At what rate of simple interest can a sum of money become five times of itself in 16 years?

1. 20% 2. 15% 3. 10% 4. 25%

Q.23)-

A man saves ₹6,000 per month from his salary. He spends 75% of his salary each month. What is his annual salary (in ₹)?

1. $24,000$ 2. $2,40,000$ 3. $2,88,000$ 4. $28,800$

Q.24)-

A bought oranges at 20 for ₹50 and sold at 10 for ₹30. What is his profit percentage?

1. 20% 2. 15% 3. 12% 4. 10%

Q.25)-

The ratio of length and breadth of a rectangle is $21 : 20$ and its perimeter is 164 cm. What is the length of its diagonal (in cm)?

1. 58 2. 57 3. 56 4. 55

Answer key

Q.1	3	Q.2	4	Q.3	2	Q.4	1	Q.5	2
Q.6	1	Q.7	2	Q.8	3	Q.9	4	Q.10	3
Q.11	3	Q.12	2	Q.13	3	Q.14	4	Q.15	1
Q.16	3	Q.17	4	Q.18	2	Q.19	4	Q.20	1
Q.21	3	Q.22	4	Q.23	3	Q.24	1	Q.25	1



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

07/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

A store announces a discount of 27% and then allows another discount of 18%. What is the final sale price (in ₹, to the nearest integer) of a bed whose marked price is ₹37,000?

1. 30,340 2. 28,675 3. 22,148 4. 27,010

Q.2)-

Find the smallest 4-digit number divisible by 8, formed using the digits 0, 2, 3, 4, 6, 8 without any repetition.

1. 2048 2. 2408 3. 2034 4. 3024

Q.3)-

A certain sum is divided among A, B and C in such a way that the ratio of shares of A and B is 3 : 4 and that of shares of C and B is 9 : 5. If the difference between the shares of A and C is ₹462, then the sum (in ₹) is:

1. 1,562 2. 1,540 3. 1,520 4. 1,500

Q.4)-

Find the number nearest to 34581 which is divisible by 9.

1. 34589 2. 34580 3. 34582 4. 34578

Q.5)-

If $a + b + c = 1$, $ab + bc + ca = -8$ and $a^3 + b^3 + c^3 = -11$, then what is the value of $\frac{a}{bc} + \frac{b}{ac} + \frac{c}{ab}$?

1. $\frac{7}{12}$ 2. $\frac{-5}{4}$ 3. $\frac{-17}{12}$ 4. $\frac{4}{3}$

Q.6)-

Telegram (Previous year papers PDFs [SSC,Railway,DSSSB,UP SI]):

https://t.me/RBE_S

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YouTube (Free lectures and job updates):

<https://youtu.be/HIRRafUmCmk>

A man spends ₹78,000 per month from his salary. He saves 40% of his salary. What is his salary (in ₹) for the whole year?

1. 13,00,000 2. 5,20,000 3. 6,50,000 4. 15,60,000

Q.7)-

If $5A = 6B = 9C$, what is $A : B : C$?

1. 5 : 6 : 9 2. 15 : 10 : 18 3. 18 : 15 : 10 4. 10 : 18 : 15

Q.8)-

A, B and C can complete a certain work in 12, 15 and 20 days, respectively. A and B together start the work and B leaves after working for 4 days. A and C together will complete the remaining work in _____ days.

1. four 2. six 3. three 4. five

Q.9)-

A shopkeeper bought 56 dozen eggs at ₹2.50 per egg. 120 eggs broke in transportation. He sold the remaining eggs at ₹2.75 each. What is his profit or loss per cent?

1. Profit of $8\frac{16}{19}\%$ 2. Loss of $8\frac{16}{19}\%$ 3. Profit of $9\frac{9}{14}\%$ 4. Loss of $9\frac{9}{14}\%$

Q.10)-

A train crosses a 1000 m long bridge in 52 seconds and another 700 m long bridge in 40 seconds. Assuming the train is running at a uniform speed, what is the speed (in km/h) of the train?

1. 90 2. 108 3. 102 4. 84

Q.11)-

A rectangle of length 14 cm and breadth 7 cm is rotated about its shorter side to form a cylinder. What is the volume (in cm^3) of the cylinder so generated?

(Take $\pi = \frac{22}{7}$)

1. 5390 2. 4312 3. 3234 4. 2156

Q.12)-

The average money P and his seven friends have is ₹450. If P has ₹120 more than the average money of his seven friends, how much money (in ₹) does P have?

1. 570 2. 555 3. 420 4. 500

Q.13)-

What is the difference between the compound interest on ₹8,000 at 15% p.a. for 2 years when the interest is compounded yearly and when compounded 8-monthly?

1. ₹72 2. ₹68 3. ₹70 4. ₹75

Q.14)-

The average age of 29 students of a class and their teacher is 14 years. When the teacher's age is excluded, the average age of the students decreases by 1 year. What is the age (in years) of the teacher?

1. 45 2. 43 3. 41 4. 42

Q.15)-

A toy is sold for ₹580.80 after giving two successive discounts, each of $x\%$. If the marked price of the article is ₹750, then what is the value of x ?

1. 9 2. 12 3. 12.5 4. 10.5

Q.16)-

If 9 men and 6 women working together can do six times as much work per hour as 1 man and 2 women working together, then the ratio of the work done by 1 man to that of 1 woman in a given time is:

1. 2 : 3 2. 2 : 1 3. 1 : 4 4. 1 : 3

Q.17)-

A man buys orange at 18 for ₹135 sells them at 11 for ₹90. How many oranges must he sell to gain ₹150?

1. 242 2. 220 3. 240 4. 198

Q.18)-

Simplify $\frac{\sqrt{5}-\sqrt{3}}{\sqrt{5}+\sqrt{3}} - \frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$:

1. $-\frac{17}{4}$ 2. $-2\sqrt{15}$ 3. $2\sqrt{15}$ 4. -1

Q.19)-

What sum of money will amount to ₹7,830 in 6 years at the rate of 7.5% per annum simple interest?

1. ₹4,500 2. ₹4,800 3. ₹6,300 4. ₹5,400

Q.20)-

There are 35 girls and 15 boys in a music club. 10 new girls join the club. What is the percentage of girls in the club now?

1. 75% 2. 60% 3. 80% 4. 65%

Q.21)-

The savings of a man is equal to 20% of his expenditure. If his income increases by 25% and expenditure increases by 18%, then his savings will increase by:

1. 7% 2. 50% 3. 37.5% 4. 60%

Q.22)-

What is the simple interest (in ₹) earned on ₹12,400 at the 6% per annum for 15 months?

1. 930 2. 1,020 3. 840 4. 750

Q.23)-

A second-hand car was sold at a profit of 25%. Had it been sold for ₹26,875 less, the profit would have been 12%.

What is the cost price (in ₹, to the nearest integer) of the car?

1. 2,06,731 2. 2,66,730 3. 2,46,731 4. 2,16,730

Q.24)-

In a class of 80 students, 40% are boys and the rest are girls. The average score in mathematics of all the students is 72. If the average score of the girls is 66, then what is the average score of the boys?

1. 80 2. 78 3. 84 4. 81

Q.25)-

A train is running at a speed of 86 km/h on a straight railway track and a small car on a parallel road is running at a speed of 40 km/h. How long (in s) will the train take to cross the car completely if the train is 490 m long and they are running in opposite directions?

1. 18 2. 14 3. 15 4. 21

Answer key

Q.1	3	Q.2	1	Q.3	1	Q.4	4	Q.5	3
Q.6	4	Q.7	3	Q.8	3	Q.9	4	Q.10	1
Q.11	2	Q.12	2	Q.13	2	Q.14	2	Q.15	2
Q.16	2	Q.17	2	Q.18	2	Q.19	4	Q.20	1
Q.21	4	Q.22	1	Q.23	1	Q.24	4	Q.25	2



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

07/02/2022-> (12:00 PM - 1:00 PM)

Quantitative Aptitude

Q.1)-

There are six numbers whose average is 120. If the sixth number is one-fourth of the sum of the remaining five numbers, then the sixth number is:

1. 148 2. 108 3. 144 4. 150

Q.2)-

The average of five numbers is 30. If one number is excluded, the average becomes 31. What is the excluded number?

1. 24 2. 31 3. 26 4. 30

Q.3)-

A certain sum amounts to ₹12,456 in $3\frac{1}{2}$ years at 8.5% p.a simple interest. What will be the simple interest on the same sum in $6\frac{1}{4}$ years at the same rate of interest?

1. ₹5,100 2. ₹5,046 3. ₹3,060 4. ₹5,240

Q.4)-

A bought an item for ₹1,100 and sold it to B at a loss of 5%. B sold the item to C at a profit of k% for ₹1,254. Find the value of k.

1. 25 2. 12 3. 20 4. 15

Q.5)-

If the number 583a4a is divisible by 6, then what is the sum of all the possible values of a?

1. 10 2. 14 3. 12 4. 8

Q.6)-

When x is subtracted from each of the numbers 64, 81, 85 and 109, the numbers so obtained in this order are in proportion. What is the mean proportional between $(x + 3)$ and $(2x - 1)$?

1. 15 2. 30 3. 18 4. 20

Q.7)-

Anju sold an article to her friend Rakesh at 14% loss. If Rakesh sold it for ₹2,537 and made a profit of 18%, then the original cost price (in ₹) of the article for Anju was:

1. ₹2,560 2. ₹2,150 3. ₹2,500 4. ₹2,450

Q.8)-

The square of the diagonal of a cube is 2346 cm^2 . What is the total surface area (in cm^2) of the cube?

1. 4692 2. 4269 3. 4296 4. 4629

Q.9)-

A can finish one-third of a work in 5 days, and B can finish 50% of the same work in 15 days. If they work together, then in how many days will they finish 50% of the work?

1. 10 2. 4 3. 8 4. 5

Q.10)-

A 175 m long train crosses a platform twice its length in 27 seconds. What is the speed (in km/h) of the train?

1. 56 2. 63 3. 70 4. 84

Q.11)-

Find the largest value of k such that a 6-digit number 450k1k is divisible by 3.

1. 7 2. 9 3. 8 4. 6

Q.12)-

If the average of six consecutive odd natural numbers is 24, then what is the average of the four smaller numbers out of the six numbers?

1. 24 2. 20 3. 21 4. 22

Q.13)-

The population of a village increases by 6.25% every year. If the present population of the village is 4046, then what was its population 2 years ago?

1. 3584 2. 3456 3. 3328 4. 3648

Q.14)-

The list price of an article was ₹735. Ravi sold it after giving a 20% discount on its list price and still made a profit of 47%. What was the cost price (in ₹) of the article?

1. 450 2. 420 3. 400 4. 375

Q.15)-

₹5,580 is divided among P, Q and R in the ratio of 7 : 11 : 13, respectively. What is the difference (in ₹) between the one-third of the largest share and two-fifth of the smallest?

1. 504 2. 276 3. 516 4. 288

Q.16)-

By selling 80 notebooks, Amrita loses an amount equal to the selling price of 10 notebooks. What is her loss per cent (to the nearest integer)?

1. 9% 2. 11% 3. 10% 4. 13%

Q.17)-

If $a + b + c = 3$, $ab + bc + ca = -10$ and $abc = -24$, then the value of $\frac{a^2}{bc} + \frac{b^2}{ac} + \frac{c^2}{ab}$ is:

1. $\frac{-15}{8}$ 2. $\frac{63}{8}$ 3. $\frac{15}{8}$ 4. $\frac{-39}{8}$

Q.18)-

What is the simplified form of the following expression?

$$\left(x - \frac{1}{y}\right)^3 + \left(x + \frac{1}{y}\right)^3$$

1. $x\left(x^2 - \frac{3}{y^2}\right)$ 2. $-2x\left(x^2 + \frac{3}{y^2}\right)$ 3. $2x\left(x^2 - \frac{1}{y^2}\right)$ 4. $2x\left(x^2 + \frac{3}{y^2}\right)$

Q.19)-

A man walking at three-fourth of his usual speed, reaches his office 4 minutes late. How much time (in minutes) does he usually take to reach his office?

1. 12 2. 10 3. 14 4. 11

Q.20)-

If two numbers are in the ratio $\frac{4}{5} : \frac{5}{6}$, then by what percentage is the first number more or less than the second number?

1. 4% less 2. 4% more 3. 20% less 4. $18\frac{2}{11}\%$ less

Q.21)-

If a shopkeeper gives two successive discounts of 50% and 20% on a mattress, whose marked price is ₹72,580, what would be its selling price (in ₹) and the discount (in ₹), respectively?

- 1.** 29,032 and 36,290 **2.** 36,290 and 29,032 **3.** 29,032 and 43,548 **4.** 43,548 and 29,032

Q.22)-

A tank is normally filled in 18 hours by a pipe, but it takes 6 hours more to fill the tank due to a leakage at its bottom. The leakage point can empty the tank when it is two-third full in _____ hours.

- 1.** 60 **2.** 36 **3.** 48 **4.** 72

Q.23)-

What is the difference (in ₹, to the nearest rupee) between the simple interest and compound interest on ₹24,500 in two years at the rate of 8% per annum? The compound interest is compounded annually.

- 1.** 157 **2.** 175 **3.** 257 **4.** 225

Q.24)-

There are green, red, and blue marbles in a bag. Their ratio is 5 : 4 : 6, respectively. If there are 135 marbles in the bag, what is the difference between the number of blue marbles and that of the red marbles?

- 1.** 6 **2.** 12 **3.** 9 **4.** 18

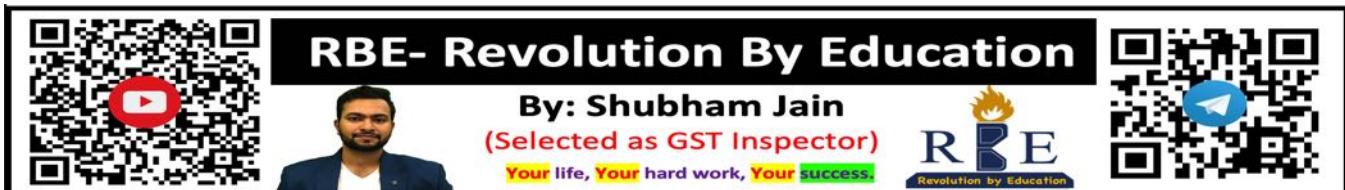
Q.25)-

A sum of money lent on interest, compounded semi-annually amounts to ₹54,000 in one year and to ₹65,340 in two years. What is the rate of interest per annum?

- 1.** 20% **2.** 10% **3.** 16% **4.** 12%

Answer key

Q.1	3	Q.2	3	Q.3	1	Q.4	3	Q.5	1
Q.6	4	Q.7	3	Q.8	1	Q.9	4	Q.10	3
Q.11	1	Q.12	4	Q.13	1	Q.14	3	Q.15	2
Q.16	2	Q.17	1	Q.18	4	Q.19	1	Q.20	1
Q.21	3	Q.22	3	Q.23	1	Q.24	4	Q.25	1



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

07/02/2022-> (3:00 PM - 4:00 PM)

Quantitative Aptitude

Q.1)-

10 men and 8 women can do a piece of work in $7\frac{1}{2}$ days whereas 6 men and 9 women can do the same work in 10 days. In how many days will 35 women complete the same work?

1. 7 2. 6 3. 8 4. 10

Q.2)-

In a class, the average marks of girls in an examination is 75 and that of the boys is 64. The average score of the whole class is 68.4. What is the percentage of the girls in the class?

1. 50% 2. 66.6% 3. 45% 4. 40%

Q.3)-

A sum of money amounts to ₹16,800 in one year and to ₹17,472 in one and a half years on the basis of interest compounded semi-annually. What is the rate of interest per annum?

1. 12% 2. 8% 3. 4% 4. 16%

Q.4)-

A shopkeeper sold 6 shirts of company A for ₹4,290 at 10% profit and 8 shirts of company B for ₹6,156 at 14% profit. What was his profit percentage (correct to 2 decimal places)?

1. 12.75% 2. 12.32% 3. 12.5% 4. 12%

Q.5)-

Two buses cover the same distance moving at speeds of 40 km/h and 50 km/h, respectively. What is the distance covered by each of them (in km) if the slower bus takes one hour more than the faster bus?

1. 200 2. 210 3. 216 4. 225

Q.6)-

What is the difference between the compound interest and simple interest (in ₹, to the nearest integer) on ₹12,000 in 2 years at 8% per annum, compounded annually?

1. 97 2. 76 3. 77 4. 98

Q.7)-

If $a + b = 2$ and $ab = 4$, then find the value of $a^4 + b^4 + ab^3 + ba^3$.

1. 18 2. 24 3. -32 4. -16

Q.8)-

A shopkeeper bought a sofa-set, a centre table and a dining table for ₹15,000, ₹3,000 and ₹7,000, respectively. He sold the sofa-set at 20% profit and the centre table at 15% profit. At what profit percentage should he sell the dining table to earn 18% on the whole transaction?

1. 12% 2. 15% 3. 17.5% 4. 12.5%

Q.9)-

Find the value of k in the following.

$$45\% \text{ of } 880 - k\% \text{ of } 450 = 61.2 \% \text{ of } 500$$

1. 18 2. 20 3. 25 4. 24

Q.10)-

Find the sum of all the possible values of k in the number 341k145k so that the number is divisible by 3.

1. 15 2. 12 3. 18 4. 9

Q.11)-

The average of n numbers is 55. If 70% of the numbers are decreased by 3 each and the remaining numbers are increased by 5 each, then what is the average of the resulting numbers?

1. 54.4 2. 53.8 3. 54.1 4. 53.5

Q.12)-

If the number 321a9246b is divisible by 72, then find the value of $a^2 - b^2$.

1. 8 2. 12 3. 10 4. 9

Q.13)-

Simplify $(x - 2y)^3 - 6xy(x - 2y)$.

1. $x^3 - 8x^2y + 16xy^2 - 8y^3$ 2. $x^3 - 8y^3 - 12x^2y + 24xy^2$ 3. $x^3 - 8y^3 + 12x^2y - 24xy^2$ 4. $x^3 - 8y^3$

Q.14)-

The average time taken by 6 athletes in a race is 1 minute 50 seconds. The winner completed the race in 1 minute 20 seconds. What is the average time taken by the other 5 athletes?

1. 1 min 56 s 2. 1 min 52 s 3. 1 min 55 s 4. 1 min 50 s

Q.15)-

Four years ago, the ratio of the ages of A and B was 3 : 5. Six years hence, the ratio of the ages of A and B will be 2 : 3. What is the sum (in years) of the present ages of A and B?

1. 90 2. 95 3. 88 4. 65

Q.16)-

The ratio of the incomes of A and B is 5 : 7 and the ratio of their expenditures is 3 : 4. If A and B save ₹5,000 and ₹9,000, respectively, then what is the difference (in ₹) between the income of A and two times the savings of B?

1. 19,000 2. 15,000 3. 14,000 4. 17,000

Q.17)-

What will be the compound interest on a sum of ₹3,750 when interest is compounded semi-annually at 16% per annum for one year?

1. ₹640 2. ₹624 3. ₹650 4. ₹600

Q.18)-

A shopkeeper sold sarees at ₹529 each after giving an 8% discount on their marked price. Had he not given the discount, he would have earned a profit of 15% on their cost. What was the cost price (in ₹) of each saree?

1. 480 2. 540 3. 500 4. 450

Q.19)-

The ratio of the length and breadth of a rectangular garden is 14 : 11 and its perimeter is 800 m. Its area is equal to the area of a circular field. What is the perimeter (in m) of the circular field? (Take $\pi = \frac{22}{7}$)

1. 682 2. 693 3. 704 4. 660

Q.20)-

Arvind goes to his school by cycle at a speed of 4 km/h and reaches his school 15 minutes late. If he moves at a speed

of $4\frac{1}{2}$ km/h, he reaches the school 10 minutes early. What is the distance (in km) of his school from his home?

1. 14 2. 15 3. 16 4. 12

Q.21)-

A garment company offers two successive discounts of 20% and 48% on the list price of the dresses. What is the final sale price (in ₹) of a dress ₹6000?

1. 2,304 2. 2,850 3. 1,920 4. 2,496

Q.22)-

A takes 84 hours to finish a work. B completes the same work in one-fourth of the time taken by A. What fraction of work will they complete in 12 hours?

1. $\frac{5}{21}$ 2. $\frac{5}{7}$ 3. $\frac{11}{21}$ 4. $\frac{1}{7}$

Q.23)-

The price of notebooks increased by 15%. How many notebooks can be purchased for the amount of money that was sufficient to purchase 253 notebooks?

1. 220 2. 224 3. 218 4. 215

Q.24)-

If 80 is the fourth proportional to 10, 16 and x, then the value of x is:

1. 2 2. 108 3. 50 4. 128

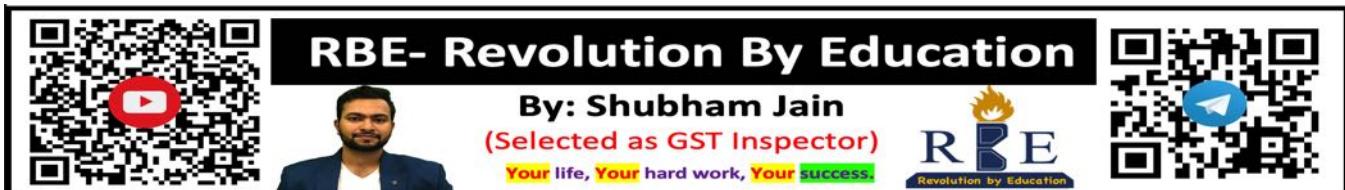
Q.25)-

Suraj bought 90 articles at ₹12.50 per article. He sold 60% of them at ₹15 per article and 50% of the remaining at ₹10.50 per article. At what price (in ₹) per article should he sell the remaining articles to get 20% profit in the entire transaction?

1. 18 2. 18.60 3. 19.50 4. 19

Answer key

Q.1	2	Q.2	4	Q.3	2	Q.4	2	Q.5	1
Q.6	3	Q.7	3	Q.8	2	Q.9	2	Q.10	3
Q.11	1	Q.12	4	Q.13	2	Q.14	1	Q.15	3
Q.16	4	Q.17	2	Q.18	3	Q.19	3	Q.20	2
Q.21	4	Q.22	2	Q.23	1	Q.24	3	Q.25	3



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

08/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

The mean proportional between 16 and 49 is:

1. 28
2. 12.1
3. 32.5
4. 22

Q.2)-

Find the value of $\sqrt{3k^3 + 4}$ such that the 6-digit number 310k0k is divisible by 6.

1. 12
2. 16
3. 14
4. 18

Q.3)-

The average monthly salary of A, B, C and D is ₹27,200. A gets ₹800 more than B, B gets ₹600 more than C, and C gets ₹400 more than D. Find the monthly salary of A (in ₹).

1. 28,000
2. 27,500
3. 28,200
4. 28,250

Q.4)-

P and Q start a business with ₹45,000 and ₹54,000. After 8 months R joined the business with ₹36,000. After 2 years, what will be the amount of profit (in ₹) for Q, if all the three earned a total profit of ₹1,47,600?

1. 54,000
2. 28,800
3. 64,800
4. 36,800

Q.5)-

Find the value of k in the number 9314k8025 so that the number is divisible by 11.

1. 5
2. 2
3. 6
4. 4

Q.6)-

By selling an article for ₹380, a man loses 24%. If he sells it for ₹475, then his loss/gain per cent is:

1. loss 6.25% 2. gain 5% 3. gain 6.25% 4. loss 5%

Q.7)-

Six solid cubes, each of side 10 cm, are melted to form a rectangular solid of base area $30\text{ cm} \times 5\text{ cm}$. The lateral surface area (in cm^2) of the resulting solid is:

1. 2800 2. 2200 3. 1440 4. 2500

Q.8)-

Find the value of $0.682^2 - 0.318^2$.

1. 0.1296 2. 0.0364 3. 0.364 4. 3.64

Q.9)-

A retailer gives 36% discount to his customer on the market price of an article. In this transaction he earns a profit of 36% on the article. If the article costs ₹4,200 to the retailer, what is its marked price (in ₹)?

1. 9,950 2. 8,925 3. 9,925 4. 8,950

Q.10)-

A number is first decreased by 30% and then increased by 30%. What is the net increase or decrease percentage?

1. Decrease by 8% 2. No change 3. Increase by 5% 4. Decrease by 9%

Q.11)-

$\frac{1}{4}\%$ of which of the following numbers is 12?

1. 0.03 2. 4800 3. 0.48 4. 48

Q.12)-

By selling an article for ₹165, a trader gains 10%. If he sells it for ₹153.75, then his loss/gain per cent is:

1. gain 2.5% 2. loss 0.25% 3. gain 0.25% 4. loss 2.5%

Q.13)-

A man sells two laptops for ₹40,548 each: gaining 24% on one and losing 20% on the other. What is his gain/loss percentage overall (correct to two decimal places)?

1. 3.75% 2. 3.45% 3. 2.75% 4. 2.35%

Q.14)-

The average score of 12 girls in a test is 16.5 and that of 8 boys in the same test is 16. Find the average score of girls and boys taken together.

1. 16.25 2. 16.4 3. 16.3 4. 16.2

Q.15)-

The speed of a boat in still water is 10 km/h and the speed of the stream is 3 km/h. How much time (in hours) will it take to sail 39 km downstream and then return immediately 28 km up stream?

1. 3 2. 8 3. 4 4. 7

Q.16)-

Five years ago, the average age of a group of seven members was 43 years. One member left the group just recently and the present average age of the group members became 42 years. What is the present age (in years) of the member who left the group?

1. 78 2. 84 3. 90 4. 80

Q.17)-

If $4x^2 + y^2 + z^2 + 41 = 2(4x + y + 6z)$, then the value of $2x + y - z$ is:

1. -3 2. 1 3. 5 4. -4

Q.18)-

A certain distance is covered by a car at a uniform speed in 8 hours. If the speed is reduced by 6 km/h, it will take 1 hour more. What is the original speed of the car (in km/h)?

1. 52 2. 60 3. 55 4. 54

Q.19)-

A is three times more efficient than B and together they finish a piece of work in 30 days. In how many days can A alone finish the same work?

1. 40 2. 150 3. 50 4. 120

Q.20)-

The difference between the interest compounded annually and the simple interest on a sum of ₹31,250 for 2 years at 8% per annum is:

1. ₹175 2. ₹220 3. ₹225 4. ₹200

Q.21)-

Ritu borrowed a sum of ₹9,000 for 2 years at 15% p.a, interest compounded 8-monthly. The amount (in ₹) paid by her after 2 years was:

1. 11,968 2. 11,979 3. 12,045 4. 12,089

Q.22)-

The simple interest on a sum of money at 10% per annum for 2 years is ₹8,000. What will be the compound interest (in ₹) on the same sum for the same period at the same rate compounded annually?

1. 8,400 2. 8,600 3. 8,500 4. 8,200

Q.23)-

A, B and C can do 50% of a work in 15 days, 12 days and 20 days, respectively. They began the work together but A left 2 days before the completion of the work. In how many days was the work completed?

1. $7\frac{2}{3}$ 2. $11\frac{2}{3}$ 3. $10\frac{2}{3}$ 4. $9\frac{2}{3}$

Q.24)-

The incomes of A and B are in the ratio 3 : 5 and their savings are ₹14,000 and ₹20,000, respectively. If the ratio of their expenditures is 4 : 7, then the income (in ₹) of A is:

1. 54,000 2. 42,000 3. 60,000 4. 57,000

Q.25)-

A shopkeeper marks his goods at such a price that even after giving a discount of 25%, he gains 20%. If the marked price of an article is ₹992, what is its cost price (in ₹)?

1. 545 2. 700 3. 620 4. 650

Answer key

Q.1	1	Q.2	3	Q.3	3	Q.4	3	Q.5	2
Q.6	4	Q.7	1	Q.8	3	Q.9	2	Q.10	4
Q.11	2	Q.12	1	Q.13	3	Q.14	3	Q.15	4
Q.16	2	Q.17	1	Q.18	4	Q.19	1	Q.20	4
Q.21	2	Q.22	1	Q.23	3	Q.24	1	Q.25	3



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

09/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

A can do a work in 8 days and B can do the same work in 12 days. If they work on it for 3 days, then what fraction of the work is left?

- 1. $\frac{5}{8}$
- 2. $\frac{17}{20}$
- 3. $\frac{3}{8}$
- 4. $\frac{19}{24}$

Q.2)-

Out of 32 numbers, the average of the first 16 numbers is 54 and the average of the last 15 numbers is 57. If the 17th number is excluded, what will be the average of the remaining numbers (correct to one decimal place)?

- 1. 54.6
- 2. 55.5
- 3. 58.7
- 4. 57.9

Q.3)-

Two trains A and B start at uniform speeds, simultaneously from two stations P and Q, respectively, towards each other. After crossing each other, A takes 20 hours to reach Q and B takes 5 hours to reach P. If train A is moving at a speed of 55 km/h, the speed of B (in km/h) is:

- 1. 100
- 2. 110
- 3. 105
- 4. 112

Q.4)-

A man sold an article for ₹9,700 and earned a profit of 25%. What would have been his profit or loss per cent (to the nearest integer), had he sold it for ₹8,400?

- 1. Loss, 9%
- 2. Profit, 8 %
- 3. Loss, 8%
- 4. Profit, 9%

Q.5)-

A shopkeeper sells an item for ₹462 after offering a discount of 25% on its list price. Had he not offered any discount he would have earned a profit of 10%. What is the cost price (in ₹) of the article?

- 1. 560
- 2. 580
- 3. 540
- 4. 550

Q.6)-

The average height of a group of 16 students was 164 cm. Four students of height 153 cm, 158 cm, 166 cm and 145 cm left the group. Nine new students of average height 167 cm joined the remaining group. What is the new average (in cm, to the nearest whole number) of the students in the group?

- 1. 164
- 2. 166
- 3. 167
- 4. 170

Q.7)-

Find the value of $22.2 \times 22.2 + 124.32 + 2.8 \times 2.8$.

- 1. 48
- 2. 550
- 3. 625
- 4. 25

Q.8)-

The amount of a certain sum at simple interest at 12.5% p.a. in 5 years is ₹1,725 more than the simple interest on the same sum at the same rate in 10 years. The sum (in ₹) is:

- 1. 5,200
- 2. 4,500
- 3. 4,800
- 4. 4,600

Q.9)-

Find the smallest number which should be added to 3029 to get a number divisible by 18.

- 1. 4
- 2. 22
- 3. 13
- 4. 9

Q.10)-

If the 8-digit number 63k4021p is divisible by 72, then find the value of $(5k - 3p)$.

- 1. -2
- 2. 7
- 3. -7
- 4. 2

Q.11)-

The ratio of boys and girls in the class is 4 : 3. If 5 more boys join the class and 3 girls leave the class, then the ratio of boys and girls becomes 11 : 6. What is the number of girls in the class now?

- 1. 18
- 2. 27
- 3. 24
- 4. 21

Q.12)-

A shopkeeper offers successive discounts of 18% and 15% and sells the item for ₹34,850. What is its marked price (in ₹)?

- 1. 51,500
- 2. 46,350
- 3. 50,000
- 4. 47,500

Q.13)-

If the selling price of 30 articles is equal to the cost price of 45 articles, the loss or gain per cent is:

1. 30% loss 2. 40% loss 3. 50% gain 4. 25% gain

Q.14)-

A man covers a certain distance at the speed of x km/h and returns to the starting point at 56 km/h. If his average speed for the whole journey is 63 km/h, then what is the value of x ?

1. 80 2. 70 3. 75 4. 72

Q.15)-

25 women can do one-third of a work in 6 days. How many women should be employed so that the work is completed in 5 days?

1. 30 2. 50 3. 60 4. 90

Q.16)-

In an examination, Shilpa scored 72.5% marks. Her friend who scored 78% marks has 88 marks more than her. Find the maximum marks of the examination.

1. 1500 2. 1450 3. 1800 4. 1600

Q.17)-

Find the value of $(16.4\% \text{ of } 1095) - (3.5\% \text{ of } 324)$.

1. 169.75 2. 168.24 3. 166.5 4. 165.2

Q.18)-

If $\frac{x}{y} + \frac{y}{x} = 1$, and $x, y \neq 0$, then find the value of $x^6 + y^6 + 2x^3y^3$.

1. 1 2. $3x^3y^3$ 3. 0 4. x^3y^3

Q.19)-

The amount of a certain sum at simple interest at 8% per annum in $7\frac{1}{2}$ years is ₹3,000 less than twice the sum. The sum (in ₹) is:

1. 7,000 2. 7,500 3. 6,500 4. 7,200

Q.20)-

What is the fourth proportional to 0.6, 0.12, 0.04?

1. 0.08 2. 0.008 3. 0.68 4. 0.1

Q.21)-

A vendor sells a refrigerator for a sum of money which is $\frac{18}{25}$ of its cost price. What is his loss or profit percentage?

1. Loss, 28% 2. Loss, 25% 3. Profit, 25% 4. Profit, 28%

Q.22)-

A field is in the shape of a rhombus. Its perimeter is 584 m and the length of one of its diagonal is 220 m. What is the area (in m^2) of the field?

1. 21,120 2. 21,450 3. 20,900 4. 21,010

Q.23)-

A certain sum amounts to ₹15,179 in $8\frac{1}{2}$ years at 9% p.a. simple interest. What will be the simple interest (in ₹) on the same sum in $5\frac{1}{2}$ years at the same rate of interest?

1. 4,455 2. 4,356 3. 4,158 4. 4,257

Q.24)-

What is the value of p if the average of the following numbers is 14?

27, 32, 14, 0, p, 10, 15

1. 5 2. 0 3. 7 4. 1

Q.25)-

A number is first increased by 35% and then again increased by 25%. The number, so obtained, is decreased by 40%. The net increase or decrease per cent in the number is:

1. increase by 20% 2. increase by 1.25% 3. decrease by 12.5% 4. decrease by 1.25%

Answer key

Q.1	3	Q.2	2	Q.3	2	Q.4	2	Q.5	1
Q.6	3	Q.7	3	Q.8	4	Q.9	3	Q.10	2
Q.11	1	Q.12	3	Q.13	3	Q.14	4	Q.15	4
Q.16	4	Q.17	2	Q.18	3	Q.19	2	Q.20	2
Q.21	1	Q.22	1	Q.23	4	Q.24	2	Q.25	2



SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

10/02/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

P can do a piece of work in 48 days and Q can do half of the same work in 30 days. If they both work together, in how many days can they complete three-eighth of the work?

1. 24 2. 12 3. 10 4. 8

Q.2)-

A shop keeper sold two articles. He sold one article at ₹29,337 and got 27% profit. He sold the other article at ₹14,206.50 and got 23% loss. What is his overall gain or loss per cent (correct to nearest integer)?

1. 5% gain 2. 4% loss 3. 7% loss 4. 8% gain

Q.3)-

In a test consisting of 80 questions, Anita answered 60% of the first 55 questions correctly. What per cent of the remaining questions should she answer correctly to obtain 70% in the entire exam?

1. 85% 2. 80% 3. 92% 4. 78%

Q.4)-

The compound interest (in ₹, to the nearest tens) on ₹90,900 for $2\frac{1}{2}$ years at the rate of 10% per annum, compounded annually, is:

1. 23,634 2. 22,954 3. 24,460 4. 24,590

Q.5)-

An article is marked at a price of ₹240 and sold for ₹220. What is the percentage discount on the article? (Correct to two decimal places)

1. 8.33% 2. 9.09% 3. 9.33% 4. 8.09%

Q.6)-

If $x^4 + \frac{1}{x^4} = 34$ where $x > 0$, then find the value of $x + \frac{1}{x}$.

1. 4 2. $4\sqrt{2}$ 3. $2\sqrt{2}$ 4. 4.25

Q.7)-

P sold a camera to Q at 32% profit. However, Q sold it to R at a loss of 20%. If R paid ₹6,464 for the camera, what was the price (in ₹, to the nearest rupee) paid by P for it?

1. 5,850 2. 6,121 3. 8,050 4. 7,080

Q.8)-

What is b : a, if $(5a + b) : (a + b) = 7 : 5$?

1. 9 : 1 2. 5 : 3 3. 1 : 9 4. 3 : 5

Q.9)-

If a seven-digit number $7x634y2$ is divisible by 88, then for the largest value of y, what is the difference of the values of x and y?

1. 6 2. 8 3. 4 4. 2

Q.10)-

If the average of 20, 25, $(p + 1)$, $(2p + 5)$ and $(p + 11)$ is 22, then the value of p is:

1. 8 2. 18 3. 16 4. 12

Q.11)-

The speed of a boat in still water is 15 km/h and the speed of the stream is 3 km/h. How much time (in hours) will the boat take if it goes 36 km downstream?

1. 3 2. 2 3. 2.5 4. 1.5

Q.12)-

If two cities A and B on a map of scale 1 : 6000000 are 5 cm apart, what is the actual distance (in km) between A and B?

1. 300 2. 120 3. 3000 4. 30

Q.13)-

Find the greatest 3-digit number divisible by 3, formed using the digits 0, 1, 2, 3, 5 without any repetition.

1. 513 2. 532 3. 531 4. 510

Q.14)-

Anu spends 80% of his income. If his income increases by 12% and the savings decrease by 10% then what is the percent increase in the expenditures?

1. 15% 2. 18% 3. 12.5% 4. 17.5%

Q.15)-

In a certain number of years T, the simple interest earned on a certain sum at the rate of 9% per annum is nine-sixteenth of the sum. What is the value of T (in years)?

1. $6\frac{1}{4}$ 2. $7\frac{1}{4}$ 3. $6\frac{1}{2}$ 4. $7\frac{1}{2}$

Q.16)-

Rohit sells an article at a certain price. If he sells it at 72% of that price, he incurs a loss of 20%. If he sells it at 20% above its actual selling price, then his profit percentage is:

1. $33\frac{1}{3}\%$ 2. 24% 3. 30% 4. $28\frac{2}{3}\%$

Q.17)-

A man's monthly salary increases from ₹36,890 to ₹47,980. What is the percentage increase (to the nearest integer) in his monthly salary?

1. 30% 2. 35% 3. 25% 4. 32%

Q.18)-

The lateral surface area of a cube is 576 cm^2 . What is its volume (in cm^3)?

1. 2744 2. $384\sqrt{6}$ 3. 4096 4. 1728

Q.19)-

If $(x + \frac{1}{2})^3 + (3x + \frac{2}{3})^3 + (x - \frac{1}{6})^3 = \frac{1}{12}(9x + 2)(2x + 1)(6x - 1)$, then what is the value of x ?

1. $-\frac{1}{2}$ 2. $-\frac{1}{4}$ 3. $-\frac{1}{5}$ 4. $-\frac{1}{3}$

Q.20)-

In an examination, the average marks of a student per paper were 72. If he had got 25 less marks in Mathematics and 17 more marks in Science, his average marks per paper would have been 71. How many papers were there in the examination?

1. 8 2. 10 3. 6 4. 9

Q.21)-

The ratio of the number of boys and girls in a class is 3 : 5. The average score in English of all the boys and girls is 67.5. If the average score of the boys is 60, then what is the average score of the girls?

- 1.** 76 **2.** 70.5 **3.** 72 **4.** 72.5

Q.22)-

P, Q and R participated in a cycle race of 4000 metres. P cycles twice as fast as Q and R cycles $\frac{1}{2}$ as fast as Q. If R completes the race in 40 minutes, then what is the speed (in km/h) of P?

- 1.** 30 **2.** 24 **3.** 18 **4.** 20

Q.23)-

A table costs ₹2,250, which is 25% below the marked price. If the article is sold at a discount of 18% on the marked price, then what is the profit or loss per cent? (Correct to two decimal places)

- 1.** Loss of 9.33% **2.** Profit of 8.33% **3.** Loss of 8.33% **4.** Profit of 9.33%

Q.24)-

A and B together can do a work in 16 days. If A alone can do the same work in 48 days, then in how many days can B alone do the same work?

- 1.** 20 **2.** 24 **3.** 16 **4.** 12

Q.25)-

On a certain sum, simple interest for 2 years is ₹9,600 whereas the compound interest compounded annually is ₹10,176. What is the rate of interest per annum?

- 1.** 12% **2.** 15% **3.** 10% **4.** 9%

Answer key

Q.1	3	Q.2	1	Q.3	3	Q.4	4	Q.5	1
Q.6	3	Q.7	2	Q.8	1	Q.9	4	Q.10	4
Q.11	2	Q.12	1	Q.13	3	Q.14	4	Q.15	1
Q.16	1	Q.17	1	Q.18	4	Q.19	3	Q.20	1
Q.21	3	Q.22	2	Q.23	4	Q.24	2	Q.25	1



SSC Selection Post Phase-ix

Matriculation Level compilation (RBE)

14/03/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

The speed of a boat in still water is 25 km/h. It takes $33\frac{1}{3}\%$ more time to cover a certain distance in still water than to cover the same distance downstream. How much time (in hours) will the boat take to go 75 km downstream?

1. 2.25 2. 3 3. 2 4. 1.8

Q.2)-

Eight years ago, the average age of A, B and C was 22 years. The average age of A and C after 2 years from now will be 32.5 years. What will be the age (in years) of B after 3 years from now?

1. 32 2. 31 3. 37 4. 39

Q.3)-

What is the amount (in ₹) on a sum of ₹5,120 at 15% per annum for $2\frac{1}{2}$ years, if the interest is compounded 10-monthly?

1. 7,920 2. 7,290 3. 9,720 4. 9,270

Q.4)-

If the 5-digit number 284xy is divisible by 3 and 77, then the value of (8x - y) is:

1. 4 2. 5 3. 9 4. 7

Q.5)-

A man sells an article at a certain price. If he sells it at 35% of this selling price, then he has a loss of 22%. If he sells it at its original selling price, then his profit percentage is:

1. 15% 2. 20% 3. 13% 4. 25%

Q.6)-

If the diameter of the base of a cone is 24 cm and its curved surface area is $1395\frac{3}{7} \text{ cm}^2$, then its volume (in cm^3) is:

Take $\pi = \frac{22}{7}$

1. 5728 2. 5280 3. 5287 4. 5782

Q.7)-

The average weight of 54 members of a club is 67.5 kg. If 6 members of average weight 72.5 kg leave and 2 new members of average weight 62.5 kg join the club, then the average weight (in kg) of the present members of the club is:

1. 64.5 2. 66.7 3. 67.2 4. 65.8

Q.8)-

By selling an article at $\frac{9}{11}$ of its actual selling price, a trader incurs a loss of 10%. What will be the profit percentage, if the article is sold for 8% less than its actual selling price?

1. $1\frac{1}{5}$ 2. $1\frac{1}{3}$ 3. $1\frac{1}{4}$ 4. $1\frac{1}{2}$

Q.9)-

The price of rice, per kg, is increased by 18% and the quantity of rice brought decreased by 22%. What is the percentage change in the amount spent on rice?

1. 19.25% increase 2. 11.2% increase 3. 12.64% decrease 4. 7.96% decrease

Q.10)-

The average of six consecutive odd numbers, in increasing order, is 42. If the next five consecutive odd numbers are included, then what is the average of all the numbers?

1. 47 2. 49 3. 53 4. 51

Q.11)-

Raju buys 75 articles at the same price each. He sells one-third of them at a profit of 40% and 20% of the remaining at a profit of 20%. He sells the remaining articles at a loss equal to the cost price of 7 articles. What is his gain/loss per cent in the entire transaction?

1. Loss, 8% 2. Gain, $6\frac{2}{3}\%$ 3. Loss, $6\frac{2}{3}\%$ 4. Gain, 8%

Q.12)-

A can do 50% of a work in 20 days and B can do $66\frac{2}{3}\%$ of the same work in 40 days. Both work together for 6 days. The remaining work is completed by C alone in 12 days. Working together, A, B and C will complete the same work in:

1. $8\frac{3}{5}$ days 2. $7\frac{3}{5}$ days 3. $9\frac{3}{5}$ days 4. $10\frac{3}{5}$ days

Q.13)-

If $2x^2 + 5x - 1 = 0$, then what is the value of $x^3 - \frac{1}{8x^3}$?

1. $\frac{145}{4}$ 2. $-\frac{125}{8}$ 3. $\frac{125}{8}$ 4. $-\frac{155}{8}$

Q.14)-

A certain number of men can do a piece of work in 48 days. If there were 30 more men, it would take 18 days less to complete the work. The number of men, initially, is:

1. 60 2. 54 3. 50 4. 72

Q.15)-

A sum of ₹ x amounts to ₹49,247 at 15% p.a. in 2 years, interest compounded 8-monthly. The value of x is:

1. 42,000 2. 36,000 3. 38,000 4. 37,000

Q.16)-

A 9-digit number 4856327 xy is divisible by 9 and $x - y = 6$. What is the value of $\sqrt{4x + 2y}$?

1. 4 2. 7 3. 3 4. 6

Q.17)-

The marked price of a washing machine is ₹18,725. A dealer allows two successive discounts of 20% and $x\%$ on the marked price and sells it for ₹14,231. What is the value of x ?

1. 10 2. 4 3. 6 4. 5

Q.18)-

The income of Anil is ₹45,000. He saves 16% of his income. If his income decreases by 5% and the expenditure increases by 2%, then his savings decrease by:

1. ₹2,996 2. ₹3,016 3. ₹3,026 4. ₹3,006

Q.19)-

A, B and C are three boxes containing marbles in the ratio 3 : 5 : 7 and the total number of marbles is 150. If 12 marbles are transferred from A to B and 8 marbles are transferred from B to C, then the new ratio of the marbles A : B : C is:

- 1.** 3 : 9 : 13 **2.** 3 : 13 : 9 **3.** 9 : 13 : 3 **4.** 13 : 3 : 9

Q.20)-

If $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{7}$, then the value of $x^3 + \frac{1}{x^3}$ is:

- 1.** 756 **2.** 679 **3.** 729 **4.** 702

Q.21)-

A car can cover a certain distance at a certain uniform speed in 19.2 hours. If the speed is increased by 8 km per hour, the same distance is covered in 18 hours. The distance (in km) is:

- 1.** 2034 **2.** 2340 **3.** 2304 **4.** 2403

Q.22)-

The monthly incomes of A and B are in the ratio 5 : 8, A saves ₹7,400 and B saves ₹6,500 per month. If the ratio of the monthly expenditures of A and B is 1 : 2, then the monthly income (in ₹) of B is:

- 1.** ₹43,500 **2.** ₹33,200 **3.** ₹39,200 **4.** ₹34,100

Q.23)-

A sum of ₹ x will amount to ₹38,637 at 8% p.a. in $2\frac{3}{4}$ years, when the interest is compounded annually. The value of x is:

- 1.** 30,175 **2.** 31,375 **3.** 30,200 **4.** 31,250

Q.24)-

A man spends 70% of his income. His income is increased by 28% but expenditure remains as earlier. By what percentage are his savings increased (correct to one decimal place)?

- 1.** 93.3% **2.** 97.9% **3.** 100.4% **4.** 200.5%

Q.25)-

A shopkeeper marks his goods at 20% above the cost price. He sells 40% of the goods at the marked price and the remaining at 30% discount on the marked price. His gain/loss percentage is:

- 1.** 1.6% loss **2.** 3.6% gain **3.** 2.3% loss **4.** 3.3% gain

Answer key

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

Q.16	4	Q.17	4	Q.18	4	Q.19	1	Q.20	4
Q.21	3	Q.22	2	Q.23	4	Q.24	1	Q.25	1

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SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

15/03/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

The average of three positive numbers is x . When the average of any two of them is added to the third number, the sums obtained are 39, 45 and 48. What is the value of x ?

1. 24 2. 22 3. 28 4. 23

Q.2)-

If the nine-digit number 8698x138y is divisible by 72, then the value of $\sqrt{3x + y}$ is:

1. 6 2. 4 3. 5 4. 7

Q.3)-

A person bought 20 kg of oranges at ₹64/kg, 25 kg of oranges at ₹56/kg and 35 kg of oranges at ₹60/kg. He mixed the three varieties. If he sells the whole lot at ₹68.75/kg, then his profit percentage is: (correct to the nearest integer)

1. 13% 2. 18% 3. 12% 4. 15%

Q.4)-

The price of an item increases by 20%, then increases by 25%, and after that decreases by 45%. If the last price of the article is ₹396, then what is the original price of the article?

1. ₹450 2. ₹420 3. ₹480 4. ₹520

Q.5)-

There are 88 students in a class. The ratio of the number of girls and boys is 5 : 3. If the average weight of boys is 79.3 kg and that of girls 65.4 kg, then the average weight (in kg) of all the students in the class is:
(Correct to one decimal place)

1. 63.8 2. 74.2 3. 72.8 4. 70.6

Q.6)-

The number of seats in a school is increased by 18%, and the fees are also increased by 11%. What is the percentage increase in the revenue collected?

1. 31.67% 2. 30.98% 3. 28.45% 4. 29.79%

Q.7)-

By selling an article for ₹4,536, a shopkeeper loses 16%. To gain 11%, he should sell it for (in ₹):

1. 5,994 2. 4,995 3. 5,499 4. 5,949

Q.8)-

The marked price of an article is ₹550. It is sold for ₹428.45 after giving two successive discounts of 18% and $x\%$ on the marked price. What is the value of $2x$?

1. 12 2. 5 3. 10 4. 8

Q.9)-

Pipe A can fill a tank in 12 minutes and pipe B can empty it in 6 minutes. If the tank is 50% full, and both pipes are opened together, then the tank will be completely empty after:

1. 7 minutes 2. 7.2 minutes 3. 6 minutes 4. 6.4 minutes

Q.10)-

When a number n is divided by 6, the remainder is 3. What will be the remainder when $(n^4 + n^3 + n^2 + 5n)$ is divided by 6?

1. 3 2. 1 3. 2 4. 0

Q.11)-

If $a : b = \frac{2}{3}$ and $b : c = \frac{5}{8}$, then $(3a + c) : (4b - c) = ?$

1. 3 : 4 2. 3 : 2 3. 5 : 3 4. 2 : 1

Q.12)-

The time taken by a boat to go a certain distance upstream is twice the time taken by it to go the same distance downstream. If the speed of the stream is 3 km/h, then how much time (in hours) will the boat take to go 52 km upstream?

1. $5\frac{1}{5}$ 2. $8\frac{2}{3}$ 3. $5\frac{7}{9}$ 4. $4\frac{1}{3}$

Q.13)-

A loan of ₹15,300 is to be paid back in two equal half yearly instalments. If the rate of interest is 8% p.a., compounded 6-monthly, then the value of each instalment is:

1. ₹8,112 2. ₹8,121 3. ₹8,212 4. ₹8,211

Q.14)-

A sum of ₹3,750 amounts to ₹5,500 in $5\frac{1}{3}$ years at a certain rate percent per annum simple interest. The interest on same sum will be ₹ x in $2\frac{2}{3}$ years at the same rate of simple interest. The value of x is:

1. 875 2. 925 3. 975 4. 825

Q.15)-

An article was marked at 26% above the cost price. It is sold at 16% discount on the marked price. The percentage profit is:

1. 4.48% 2. 6.45% 3. 3.75% 4. 5.84%

Q.16)-

Pipes A and B together can fill an empty tank in 30 hours, whereas pipes B and C together can fill it in 24 hours. A, B and C together can fill the tank in 20 hours. In how many hours can pipe B alone fill 35% of the tank?

1. 21 2. 14 3. $17\frac{1}{2}$ 4. $10\frac{1}{2}$

Q.17)-

If $(7x - 3)^3 + (x + 2)^3 + 27(2x + 5)^3 = 9(7x - 3)(x + 2)(2x + 5)$, then $(9x + 13) : (5x + 7) = ?$

1. 5 : 3 2. 35 : 19 3. 2 : 1 4. 11 : 6

Q.18)-

The average of some numbers is 36. If each of $\frac{3}{4}$ of the numbers is increased by 8, and each of the remaining numbers is decreased by 10, then the average of the numbers, so obtained, is:

1. 36 2. 38 3. 40.5 4. 39.5

Q.19)-

If the simple interest on a sum of ₹ x at 8% p.a. for $3\frac{1}{2}$ years is double the simple interest on another sum of ₹ y at 12% p.a. for 3 years, then the ratio of x to y is:

1. 20 : 7 2. 8 : 11 3. 18 : 7 4. 5 : 11

Q.20)-

The circumference of a circular field is 704 m. What is the cost of levelling it at ₹15.25/ m² ?

(take $\pi = \frac{22}{7}$)

1. ₹6,01,216 2. ₹6,51,744 3. ₹5,49,280 4. ₹6,48,048

Q.21)-

If x exceeds 25% of itself by 72, and y exceeds 40% of itself by 60, then y exceeds x by:

(Correct to one decimal place)

1. 3.8% 2. 5.6% 3. 4.2% 4. 4.9%

Q.22)-

How long (in seconds) will a train of a length 450 m, running at a speed of 69 km/h, take to cross a man moving in the opposite direction at a speed of 3 km/h?

1. 22.5 2. 20 3. 18.5 4. 25

Q.23)-

What is the ratio of the mean proportional between 1.9 and 17.1 to the third proportional to 1.2 and 4.2?

1. 13 : 37 2. 17 : 87 3. 11 : 47 4. 19 : 49

Q.24)-

If $x + \frac{1}{x} = 4$, $x > 0$, then what is the value of $(x^4 + \frac{1}{x^2}) ÷ (x^2 + 8x + 1)$?

1. $\frac{8}{3}$ 2. $\frac{7}{6}$ 3. $\frac{13}{3}$ 4. $\frac{16}{9}$

Q.25)-

The selling price of an article is ₹624 when it is sold at 30% profit. If the cost price of the article is increased by ₹50 and the selling price is increased by ₹60, then what will be the profit percentage (nearest to an integer)?

1. 28% 2. 29% 3. 25% 4. 27%

Answer key

Q.1	2	Q.2	3	Q.3	4	Q.4	3	Q.5	4
Q.6	2	Q.7	1	Q.8	3	Q.9	3	Q.10	4
Q.11	2	Q.12	2	Q.13	1	Q.14	1	Q.15	4
Q.16	2	Q.17	3	Q.18	4	Q.19	3	Q.20	1

Q.21	3	Q.22	1	Q.23	4	Q.24	3	Q.25	2
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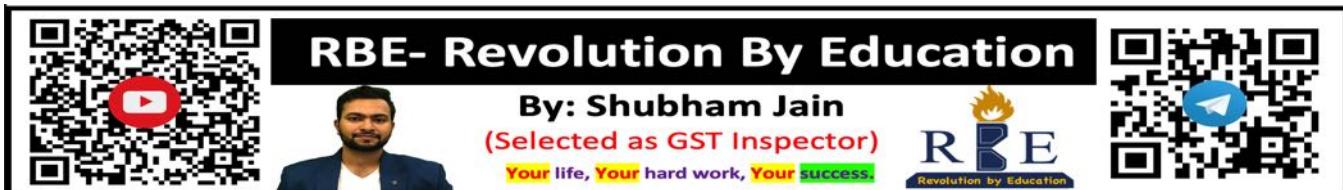
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SSC Selection Post Phase-ix Matriculation Level compilation (RBE)

16/03/2022-> (9:00 AM - 10:00 AM)

Quantitative Aptitude

Q.1)-

A, B and C can complete a certain work in 30 days. B and C together can complete the same work in 45 days. If B is 20% more efficient than A, then B alone can complete one-third of the same work in:

1. 20 days
2. 30 days
3. 15 days
4. 25 days

Q.2)-

A and B together can do a certain work in 36 days, whereas B and C together can do it in 30 days. A, B and C together can complete the same work in 24 days. In how many days can A alone complete $33\frac{1}{3}\%$ of the same work?

1. 45
2. 36
3. 20
4. 40

Q.3)-

What is the amount (in ₹) on a sum ₹50,000 for $2\frac{3}{4}$ years at 12% p.a., if the interest is compounded annually? (nearest to an integer)

1. 68,365
2. 66,538
3. 66,385
4. 63,685

Q.4)-

If $a + b + c = 8$ and $ab + bc + ca = 2$, then what is the value of $a^3 + b^3 + c^3 - 3abc$?

1. 547
2. 449
3. 452
4. 464

Q.5)-

The incomes of A and B are in the ratio 3 : 7. A and B save ₹3,800 and ₹12,200, respectively. If the ratio of their expenditures is 4 : 9, then what is the difference (in ₹) between the income of A and 40% expenditure of B?

1. 7,800 2. 7,500 3. 7,200 4. 8,200

Q.6)-

A is 30% more than B and C is 18% less than the sum of A and B. By what percentage is C more than A (correct to one decimal place)?

1. 44.7% 2. 40.9% 3. 45.1% 4. 48.4%

Q.7)-

The income of a company increases 18% per year. If its income is ₹29,93,660 in the year 2020, what was the income (in ₹) in 2018?

1. 25,00,100 2. 21,50,000 3. 25,10,000 4. 21,00,500

Q.8)-

The cost price of an article is ₹126. A shopkeeper marks it in such a way that even after giving a 16% discount on the marked price, he still gains 25%. What is the marked price (in ₹) of the article?

1. 187.50 2. 190.50 3. 200.80 4. 175.80

Q.9)-

The area of a triangular field with sides 48 m, 90 m and 102 m is equal to 3 times the area of rectangular plot whose sides are in the ratio 4 : 5. The perimeter of the rectangular plot is:

1. 90 m 2. 144 m 3. 108 m 4. 126 m

Q.10)-

Which of the following is NOT divisible by 11?

1. 7985314625 2. 8957314652 3. 8050314052 4. 9857316425

Q.11)-

A sum of ₹ x is divided between A, B and C in the ratio $\frac{4}{5} : \frac{2}{3} : \frac{3}{4}$. If the share of B is ₹2,600, then what is the value of x ?

1. 8,645 2. 8,515 3. 8,450 4. 8,580

Q.12)-

The compound interest on a certain sum at 15 % p.a. in 2 years is ₹4,837.50, interest compounded-yearly. What is the amount of the same sum at the same rate and for the same time, if the interest is compounded 8-monthly?

1. ₹19,965 2. ₹21,296 3. ₹19,275 4. ₹19,300

Q.13)-

On selling an article for ₹493.60, the gain is 20% more than the amount of loss incurred on selling it for ₹432. If the article is sold for ₹441.50, then what is the percentage (correct to the nearest integer) gain/loss?

- 1. Profit 7%
- 2. Loss 5%
- 3. Loss 4%
- 4. Profit 3%

Q.14)-

The distance between two persons A and B is 432 km. They started travelling towards each other at 7:20 hours at 24.5 km/h and 20.5 km/h, respectively. At what time did they meet?

- 1. 16:56 hours
- 2. 14:08 hours
- 3. 13:18 hours
- 4. 13:38 hours

Q.15)-

The average of eleven consecutive positive integers in increasing order is 251. If the next four odd numbers are included, then what is the average of all the numbers?

- 1. 253
- 2. 253.4
- 3. 254
- 4. 252.6

Q.16)-

If the cost price of x articles is equal to the selling price of 20 articles and the loss is 20%, then what is the value of x ?

- 1. 16
- 2. 15
- 3. 18
- 4. 12

Q.17)-

A post office received 54 parcels with an average weight of 125 g. The average weight of 52 parcels is 125.5 g. Among the remaining two parcels, one weighs one-third of the other. What is the difference between the weights (in g) of these two parcels?

- 1. 112
- 2. 96
- 3. 106
- 4. 108

Q.18)-

How many integers between 299 and 501 are divisible by 4 or 10?

- 1. 56
- 2. 72
- 3. 51
- 4. 61

Q.19)-

A person sold a gas stove for ₹1,810 and a geyser for ₹2,432. He gained 40% on the gas stove and lost 14% on the geyser. His net gain/loss on the whole transaction was approximately:

- 1. gain, ₹121.24
- 2. loss, ₹142.36
- 3. gain, ₹132
- 4. loss, ₹113

Q.20)-

If $a + b + c = 1$, and $a^3 + b^3 + c^3 = 55$, and $ab + bc + ca = -10$, then what is the value of $5abc$?

1. 35 2. 45 3. 40 4. 25

Q.21)-

A sum of ₹70,000 was lent partly at 4% p.a. and the remaining at 6% p.a. simple interest. The total interest received after $3\frac{1}{2}$ years is ₹12,488. The sum lent at 4% p.a. is:

1. ₹38,400 2. ₹35,200 3. ₹31,600 4. ₹34,800

Q.22)-

The marked price of an article is ₹250. It is sold for ₹184.90 after giving two successive discounts, each of $x\%$ on its marked price. What is the value of x ?

1. 13 2. 12 3. 15 4. 14

Q.23)-

The cost of a car is 150% more than that of a scooter. If the cost of the car decreases by 15% and that of the scooter increases by 20%, then what is the percentage increase/decrease in the total cost of 4 cars and 5 scooters?

1. Decrease by $3\frac{1}{3}\%$ 2. Increase by 5% 3. Increase by $3\frac{2}{3}\%$ 4. Decrease by 4%

Q.24)-

A car travels for 15 minutes at 30 km/h, for 30 minutes at 60 km/h, and for 1 hour at $66\frac{2}{3}$ km/h. The average speed (in km/h) of the car is: (correct to one decimal place)

1. 59.5 2. 60.7 3. 61.8 4. 56.9

Q.25)-

In an examination, the average score of a student was 77.6. If he would have got 27 more marks in mathematics, 10 more marks in computer science, 13 more marks in history, and retained the same marks in the other subjects, then his average score would have been 82.6. How many subjects were there in the examination?

1. 10 2. 12 3. 11 4. 9

Answer key

Q.1	4	Q.2	4	Q.3	1	Q.4	4	Q.5	1
Q.6	3	Q.7	2	Q.8	1	Q.9	3	Q.10	1
Q.11	1	Q.12	1	Q.13	3	Q.14	1	Q.15	2
Q.16	1	Q.17	1	Q.18	4	Q.19	1	Q.20	3
Q.21	3	Q.22	4	Q.23	1	Q.24	1	Q.25	1



SSC Selection Post Phase-ix

Matriculation Level compilation (RBE)

16/03/2022-> (12:00 PM - 1:00 PM)

Quantitative Aptitude

Q.1)-

The compound interest on a sum of ₹18,400 at 10% p.a. for a certain period of time, is ₹3,864, interest compounded yearly. What is the simple interest (in ₹) on double the sum, at the same rate for double the time?

1. 7,360
2. 11,820
3. 14,720
4. 10,785

Q.2)-

The amount of a certain sum in $2\frac{3}{4}$ years at 8.4 % p.a. simple interest is ₹2,325 more than the simple interest on the same sum for $7\frac{1}{2}$ years at 16 % p.a. What is the sum (in ₹)?

1. 78,000
2. 75,000
3. 70,000
4. 80,000

Q.3)-

Some toffees are bought at the rate of 11 for ₹10, and another batch of the same number of toffees, at the rate of 5 for ₹6. If the whole lot is sold at ₹2/toffee, then the gain/loss percentage, correct to one decimal place, on the whole transaction is:

1. 85.5% gain
2. 85.5% loss
3. 89.7% gain
4. 95.2% loss

Q.4)-

A man has to cover a distance of 108 km in 9 hours. If he covers $\frac{2}{3}$ of the distance in $\frac{5}{9}$ time, what should be his speed (in km/h) to cover the remaining distance in the time left?

1. 9
2. 10
3. 8
4. 12

Q.5)-

If the 9-digit number $9843x678y$ is divisible by 72, then what is the value of $(x^2 + y^2 + xy)$?

1. 29 2. 43 3. 41 4. 61

Q.6)-

If $x - y = 4$ and $x^3 - y^3 = 316$, $y > 0$, then the value of $x^2 - y^2$ is:

1. 24 2. 32 3. 48 4. 40

Q.7)-

Akhilesh borrowed ₹50,000 at a certain rate on simple interest and lent the same sum to Rakesh on compound interest, compounded annually at the same rate of interest. At the end of 2 years, Rakesh cleared his loan and then Akhilesh also cleared his loan. In the process, Akhilesh earned ₹180. What was the rate of interest charged per annum?

1. 8% 2. 6% 3. 7.5% 4. 5%

Q.8)-

When $(2^{18} - 1)$ is divided by 9, the remainder is:

1. 2 2. 0 3. 8 4. 1

Q.9)-

When x is added to each of 7, 11, 16, 21, then the numbers so obtained in this order are in proportion. What is the value of x ?

1. 29 2. 21 3. 24 4. 31

Q.10)-

A person reaches his destination 32 minutes late if his speed is 6 km/h, and reaches 18 minutes before time if his speed is 7 km/h. Find twice the distance (in km) of his destination from his starting point.

1. 55 2. 70 3. 60 4. 65

Q.11)-

A library has an average of 219 visitors on Saturdays and an average of 281 on other weekdays. The average number of visitors per day in a month of 31 days, beginning with a Friday, is:

1. 277 2. 273 3. 271 4. 269

Q.12)-

'A' can complete a work in 20 days and 'B' can do $\frac{2}{5}$ of the same work in 16 days. They work together for 10 days. The remaining work was completed by 'C' alone in 12 days. 'C' alone will complete the same work in:

1. 48 days 2. 36 days 3. 24 days 4. 40 days

Q.13)-

After giving three successive discounts of 15%, 5% and p%, respectively, on the marked price of an article of ₹4,800, it is sold for ₹3,100.80. What is the value of p?

1. 25 2. 18 3. 20 4. 15

Q.14)-

When an article is sold for ₹991.20, there is a profit of 12%. To gain 15%, it should be sold (in ₹) for:

1. 1107.75 2. 1170.75 3. 1017.75 4. 1701.75

Q.15)-

At what price (in ₹) should a shopkeeper mark an article which costs him ₹2,400 so as to gain 16% after allowing a discount of 20%?

1. 3,525 2. 3,480 3. 3,275 4. 3,390

Q.16)-

The income of Sunita is ₹48,000. She saves 15% of her income. If her expenditure increases by 20% and her income increases by 15%, then what is the increase/decrease in her savings?

1. Decrease by ₹960 2. Increase by ₹860 3. Increase by ₹1,000 4. Decrease by ₹1,060

Q.17)-

If $a + b + c = 8$ and $ab + bc + ca = 11$, then what is the value of $\left(\frac{a^3 + b^3 + c^3 - 3abc}{4}\right)$?

1. 56 2. 60 3. 62 4. 65

Q.18)-

A, B and C are three numbers. A is 45% more than C, and B is 20% less than the sum of A and C. Approximately by what percentage is A less than B?

1. 25% 2. 26% 3. 35.2% 4. 25.4%

Q.19)-

A and B obtained 488 marks and 376 marks, respectively, in the same test. If A obtained 61% marks, then the percentage of marks obtained by B is:

1. 48% 2. 49% 3. 51% 4. 47%

Q.20)-

If the cost of x chairs is equal to the selling price of 16 chairs and the profit percentage is 12.5%, then what is the value of x ?

1. 20 2. 24 3. 22 4. 18

Q.21)-

A park is in a shape of a rectangle with length 180 m and breadth 120 m. At the centre of the park, there is a circular lawn of circumference 502.4 m. The area of the park, excluding the area of lawn, in m^2 , is:

(Take $\pi = 3.14$)

1. 1540 2. 1405 3. 1504 4. 1450

Q.22)-

The average weight of a certain number of children in a group was 37 kg. If 12 children of average weight 38.5 kg joined the group, then the average weight of all the children increased by 0.45 kg. The number of children, initially, in the group was:

1. 23 2. 28 3. 18 4. 13

Q.23)-

18 men can complete a certain work in 15 days working 8 hours a day. How many men can complete the same work in 12 days working 9 hours a day?

1. 15 2. 18 3. 20 4. 25

Q.24)-

The ratio of the incomes of A and B are 3 : 7. If the income of A is increased by ₹4,500 and the income of B is decreased by ₹6,750, then the ratio of their incomes become 6 : 11. What is the sum of their present incomes (in ₹)?

1. 2,04,000 2. 1,70,000 3. 1,53,000 4. 1,87,000

Q.25)-

The average of x occurring 5 times and y occurring 7 times is 37. Also, the average of x occurring 7 times and y occurring 5 times is 35. The value of $\frac{x}{6}$ is:

1. 8 2. 5 3. 4 4. 6

Answer key

Q.1	3	Q.2	2	Q.3	3	Q.4	1	Q.5	4
Q.6	4	Q.7	2	Q.8	2	Q.9	1	Q.10	2
Q.11	3	Q.12	1	Q.13	3	Q.14	3	Q.15	2
Q.16	1	Q.17	3	Q.18	2	Q.19	4	Q.20	4
Q.21	3	Q.22	2	Q.23	3	Q.24	2	Q.25	2

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