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(Exams held in June 2024)



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By Shubham Sir

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27 June Shift-1 (9 to 11 AM)

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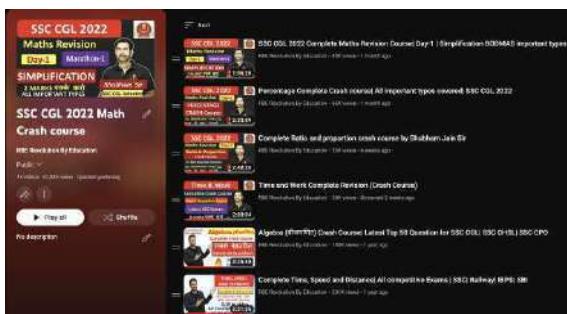
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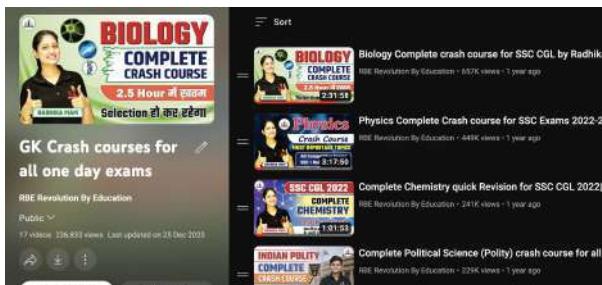
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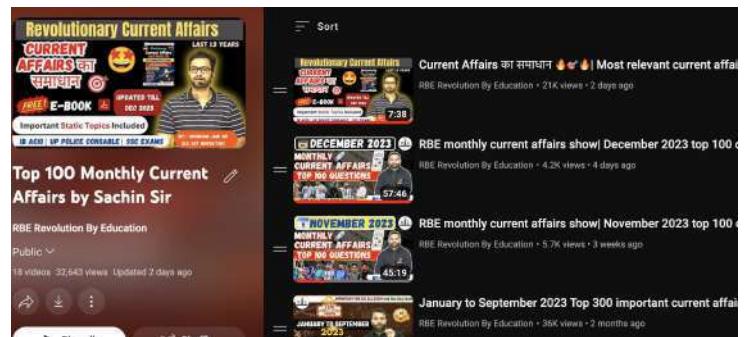
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27/06/2024-> (9:00 AM - 11:00 AM)

Quantitative Aptitude

How many metres of cloth will be required to make a conical tent, the radius of whose base is 21 metres and height is 28 metres. The width of the cloth is 5 metres.

Q.1)- (Where $\pi = \frac{22}{7}$)

1. 462 2. 478 3. 470 4. 456

The possible value of x satisfying $\frac{(143 + 13 \times x - 3 \times 3)}{(6^2 - 7 \times 5 + x^2)} = 1$ is:

Q.2)-

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

Q.3)- A train covers 60 km at a speed of 80 km/h, 100 km at a speed of 90 km/h, and another 140 km at a speed of 120 km/h. Find the average speed for the complete journey. (Round to the nearest integer.)

1. 105 km/h 2. 99 km/h 3. 90 km/h 4. 115 km/h

Q.4)- A 12 litre solution of acid and water contains 30% acid. How much water (in litres) must be added to get a solution having 20% acid?

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

Q.5)- The value of $35 - [28 - (60 \div 4 + 26 \div 13)]$ is equal to:

1. 26 2. 27 3. 22 4. 24

Q.6)- If $\tan(t) + \cot(t) = 1$, then one of the values of the expression $\frac{1}{\sin(t) + \cos(t)}$ is _____.

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

Q.7)- A shopkeeper offers 3 schemes of discounts to his customers. Which of the following schemes will fetch the minimum discount percentage?

- A) Two successive discounts of 24% and 27%.
B) Buy 5 get three free.
C) Buy 6 and get 10.

1. A 2. Both A and C 3. B 4. C



If $x + y + z = 1$, $xy + yz + zx = -1$ and $xyz = -1$, then $(x^3 + y^3 + z^3)$ is equal to

Q.8)- _____.

- 1. 1 2. 2 3. 3 4. 0**

Q.9)- The cost price of 36 articles is the same as the selling price of N articles. If the profit is 20%, then the value of N is:

- 1. 25 2. 40 3. 30 4. 42**

Q.10)- A can complete a piece of work alone in 200 days, while B can complete the same piece of work alone in 100 days. In every three-day cycle, both A and B work on day 1, only A works on day 2, and only B works on day 3. This cycle continues till the work is completed. How many days in all does it take the duo to complete the work?

- 1. $100\frac{1}{2}$ 2. $99\frac{2}{3}$ 3. $100\frac{1}{3}$ 4. 100**

Q.11)- Study the given table and answer the question that follows.

The table shows the number of students studying in 6 different classes of 6 different schools.

The number of students studying in class X from school P forms approximately what percentage of the total number of students studying in class X from all schools together?

School	V	VI	VII	VIII	IX	X
P	152	160	145	156	147	144
Q	148	166	150	155	157	143
R	161	152	140	145	143	165
S	159	142	149	140	142	168
T	147	144	158	163	154	150
U	150	160	162	160	161	140
Total	917	924	904	919	904	910

- 1. 32% 2. 16% 3. 24% 4. 8%**

Q.12)- In ΔABC , AD is the internal bisector of $\angle A$, meeting the side BC at D. If $BD = 5$ cm, $BC = 7.5$ cm, then $AB : AC$ is:

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

The sum of two numbers x and y (where x is greater than y) is equal to four times of their difference. Find the value of $\frac{5xy}{3(x^2 - y^2)}$.

Q.13)-

- 1. $\frac{16}{25}$ 2. $\frac{25}{16}$ 3. $2\frac{3}{16}$ 4. 25**

Q.14)- Find the single discount rate percentage equivalent to the successive discounts of 10%, 20% and 20%.

- 1. 50% 2. 54.6% 3. 40% 4. 42.4%**

Refer the below data and answer the following question:

Partners	Present % share
Singh	10
Pandey	5
Anil	15
Sunil	25
Varma	30
Rajesh	15

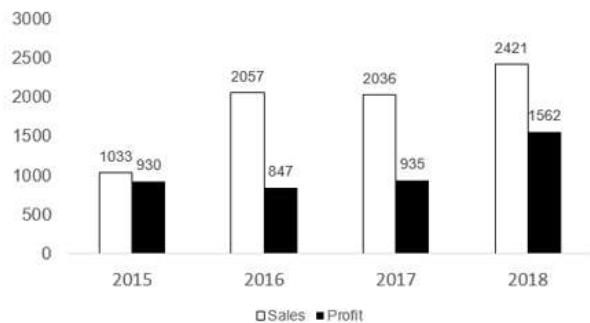
If the company has issued 8 lakh shares between its 6 partners and if Varma offers to sell 10000 of his shares to Pandey,

Q.15)- then how many shares will Pandey have?

- 1. 50000 2. 40000 3. 20000 4. 30000**

Study the given bar-graph and answer the question that follows.

The bar-graph gives the sales and profit (both in ₹ cr.) of company Z across four years.



What was the approximate percentage profit margin on revenue of company Z in

Q.16)- 2016?

- 1. 70% 2. 60% 3. 54.64% 4. 41.18%**

Q.17)- In an election, 12% of the voters in the voter list did not cast their votes, whereas 84 voters cast their ballot papers blank. There were only two candidates: Ramagya and Shravan. The winner, Ramagya, was supported by 54% of all the voters in the list. He got 1456 more votes than his rival, Shravan. Find the total number of voters in the list.

- 1. 7860 2. 5690 3. 6860 4. 6670**

Q.18)- A thief running at 7 km/h is chased by a policeman whose speed is 12 km/h. If the thief is 280 m ahead of the policeman, then the time required for the policeman to catch the thief will be:

- 1. $3\frac{9}{25}$ minutes 2. $4\frac{9}{25}$ minutes 3. $3\frac{2}{25}$ minutes 4. $3\frac{1}{25}$ minutes**

Q.19)- Simplify: $(1 + \tan^2 A) + (1 + \frac{1}{\tan^2 A})$

- 1. $\frac{1}{\sin^2 A - \cos^4 A}$ 2. $\frac{1}{\sin^2 A - \sin^4 A}$ 3. $\frac{1}{\cos^2 A - \sin^4 A}$ 4. $\frac{1}{\cot^2 A - \tan^4 A}$**

A hemispherical bowl is 88 cm round the brim. Assuming it to be full, how many persons may be served from it in hemispherical glasses, 7 cm in diameter at the

Q.20)- top? (Where $\pi = \frac{22}{7}$)



1. 70 2. 64 3. 74 4. 68

Q.21)- Find the value of $24 \div (3 - 8 \times 3 + 27) + 3$.

- 1. $\frac{1}{2}$**
- 2. $\frac{6}{5}$**
- 3. $\frac{7}{2}$**
- 4. $\frac{3}{2}$**

Q.22)- Ramanna purchased raw materials for a certain price to manufacture a product. However, owing to shortage of labour, 22.5% of the raw materials could not be utilised and got wasted. 80% of the cost of raw materials used was added as the cost of manufacturing. If Ramanna could sell his product at a price to earn an overall profit of 20% after offering a discount of 20%, how many times of the total cost of the raw materials purchased was the marked price of the product?

- 1. 2.44 times**
- 2. 2.42 times**
- 3. 2.40 times**
- 4. 2.43 times**

Q.23)- If the sum of two numbers x and y is 12 and their product is 27, then find the sum of their cubes.

- 1. 576**
- 2. 765**
- 3. 756**
- 4. 657**

Q.24)- Two numbers are in the ratio of 3 : 7. If 11 is subtracted from each, the ratio between the numbers becomes 7 : 20. Find the smaller number.

- 1. 36**
- 2. 39**
- 3. 21**
- 4. 27**

Q.25)- The base of a parallelogram is twice its height. If the area of the parallelogram is 338 cm^2 , then find its height (in cm).

- 1. 12**
- 2. 13**
- 3. 11**
- 4. 14**

Q.26)- A car covers 20 km in the first quarter of an hour, 25 km in the second quarter of that hour and 15 km in the third quarter. The average speed of the car (in km/h) over the entire journey is:

- 1. 75**
- 2. 65**
- 3. 80**
- 4. 70**

Q.27)- If the radius of a sphere is 2.1 cm, then the volume of sphere is equal to:

- 1. 36.808 cm^3**
- 2. 38.088 cm^3**
- 3. 38.808 cm^3**
- 4. 36.088 cm^3**

Q.28)- Find the value of $[18 - 3 \times \{3 - 3 \times (3 \div \frac{1}{3} - 3) + 3 \div \frac{1}{3} + 3\} - 4 \times 2]$.

- 1. 19**
- 2. 18**
- 3. 12**
- 4. 15**

Q.29)- A can do a work in 20 days and B in 30 days. If they work on it together for 2 days, then what is the fraction of the work that is left?

- 1. $\frac{5}{8}$**
- 2. $\frac{5}{6}$**
- 3. $\frac{3}{5}$**
- 4. $\frac{5}{7}$**

Q.30)- The following table shows the classification of 100 students based on the marks obtained by them in Maths and Science in an examination.

What is the difference between the number of students who passed with 60 as cut-off marks in



Science and those who passed with 60 as cut-off marks in aggregate?

Subjects	Marks out of 100				
	80 and above	60 and above	40 and above	20 and above	0 and above
Maths	12	35	80	94	100
Science	16	43	76	88	100
Average (Aggregate)	14	39	78	91	100

- 1. 3 2. 5 3. 4 4. 6**

Q.31)- A person borrowed ₹ 1760 at 6% per annum and ₹ 2240 at 9% per annum at simple interest for the same period. He had to pay ₹ 1536 in all as interest. Find the time (in years).

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

Q.32)- Find the value of $12 + 24 \div 2 - 7 \times 30 \div 6 + (5 + 4) \times 8 + 8 \div 8 - 8$.

- 1. 85 2. 58 3. 54 4. 45**

Q.33)- Simplify the following expression. $3\frac{1}{5} \text{ of } 2\frac{3}{4} \div \frac{11}{3} + (2\frac{1}{5} \div 1\frac{2}{5} \text{ of } 1\frac{3}{7} - 2\frac{1}{3})$

- 1. $1\frac{1}{6}$ 2. $3\frac{1}{6}$ 3. $4\frac{1}{6}$ 4. $2\frac{1}{6}$**

Q.34)- What is the total surface area of a cone whose radius is $\frac{r}{4}$ and slant height is $4l$?

- 1. $8\pi r(l+r)$ 2. $4\pi r(l+r)$ 3. $\pi r\left(1+\frac{r}{16}\right)$ 4. $\pi r\left(1+\frac{r}{4}\right)$**

Q.35)- A man wishes to cover 1 km distance in river water. In still water he takes 12 minutes to cover it, but in the flowing river he takes 13 minutes. The speed of the flowing water of the river is:

- 1. $\frac{5}{13}$ km/h 2. 25 km/h 3. $\frac{7}{12}$ km/h 4. 22 km/h**

Q.36)- In an election between two candidates, one got 60% of the total valid votes. 25% of the votes were invalid. If the total number of votes was 15,000, then find the number of valid votes that the other candidate got.

- 1. 4,500 2. 5,550 3. 5,000 4. 6,750**

Q.37)- If $\sec 6A = \operatorname{cosec}(A - 29^\circ)$, where $2A$ is an acute angle, then the measure of $2A = \underline{\hspace{2cm}}$ °.

- 1. 19 2. 21 3. 17 4. 18**

Q.38)- 57% of Ranita's weekly income is equal to 76% of Bhaskar's weekly income. If Ranita's weekly income was reduced by ₹400, while Bhaskar's weekly income did not change, the ratio of the weekly incomes of Ranita and Bhaskar, respectively, would have been 6 : 5. What is Bhaskar's weekly income (in ₹)?

- 1. 3000 2. 3200 3. 2800 4. 4000**

Q.39)- If $\cot\theta = 28/45$, then find the value of $(\sin\theta - \cos\theta)$.

- 1.** $17/53$ **2.** $7/53$ **3.** $45/28$ **4.** $28/53$

Q.40)- The value of $3\frac{2}{3} \div 2\frac{1}{5} \times \frac{1}{4} \times \left(1 + \frac{3}{1-\frac{2}{5}}\right)$ is:

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

Study the given table (pictograph) and answer the question that follows.

The table (pictograph) shows the number of scouts in a school.

Class / Number of Scouts	= 15 scouts
IV	(☺☺☺☺☺☺)
V	(☺☺)
VI	(☺☺☺☺☺☺☺☺)
VII	(☺☺☺☺)
VIII	(☺☺☺)

Q.41)- What is the total number of scouts in classes VI to VIII?

- 1.** 195 **2.** 200 **3.** 225 **4.** 320

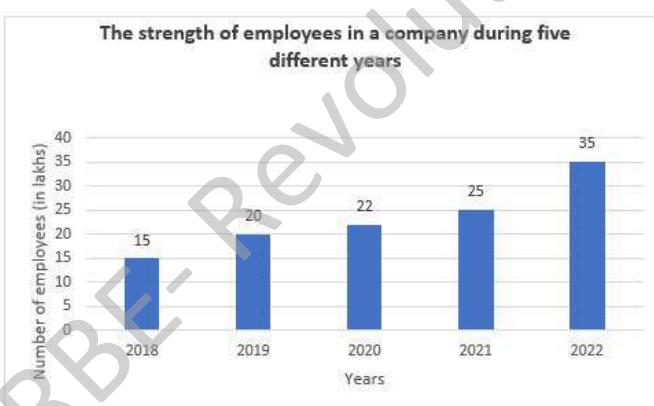
From an external point A, tangents AP and AQ are drawn to a circle with centre O. If

Q.42)- $\angle APQ = 40^\circ$, then find $\angle POQ$.

- 1.** 110° **2.** 80° **3.** 100° **4.** 60°

Study the given graph and answer that question that follows.

The following bar graph shows the strength of employees (in lakhs) in a company during five different years.



Q.43)- What was the percentage increase in employees in 2022 over 2019?

- 1.** 75% **2.** 20% **3.** 70% **4.** 25%

Q.44)- The value of $52 - [18 \div 3 + 3 + (18 - 11) \text{ of } 4]$ is equal to:

- 1.** 22 **2.** 18 **3.** 15 **4.** 21

Q.45)- The fourth proportional to 4,a and 16a is 81. What is the value of a?

- 9 5 13 11**
1. $\frac{9}{2}$ 2. $\frac{5}{2}$ 3. $\frac{13}{2}$ 4. $\frac{11}{2}$

The chord length of a chord made on an arc of a circle is equal to the radius of the circle. The length of the arc is _____ (in units), if the radius of the circle is 21 units.

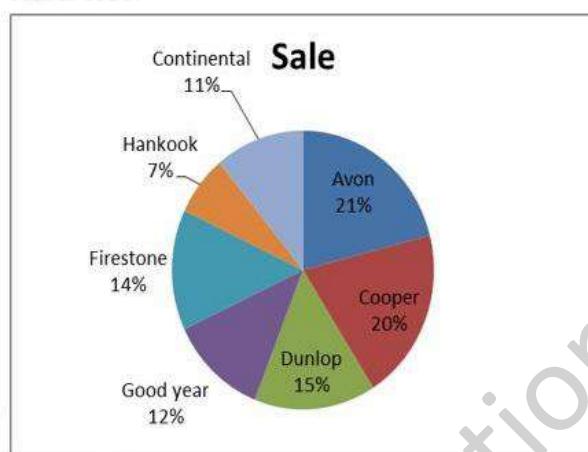
Q.46)- (Take $\pi = \frac{22}{7}$)

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

Q.47)- In ΔABC , P is a point on AB such that $PB : AP = 3 : 4$ and PQ is parallel to AC. If AR and QS are perpendicular to PC and $QS = 9$ cm, what is the length (in cm) of AR?

- 1. 14 2. 21 3. 35 4. 28**

The percentage distribution of the number of tires of different brands produced in a year by a certain factory is shown in the given pie chart. The total number of tires sold is 1350.



What is the difference between the average number of Avon and Firestone tires

Q.48)- sold together and the average number of Good year and Dunlop tires sold together?

- 1. 55 2. 54 3. 46 4. 45**

Q.49)- A sum of money at compound interest doubles itself in 4 years. In how many years does the sum become 8 times of itself at the same rate of interest?

- 1. 10 2. 15 3. 12 4. 8**

Q.50)- Simplify the given expression. $25 \div 5 \times 7 \text{ of } (5 + 7) - 13(6 \times 4)$

- 1. 126 2. 112 3. 108 4. 138**

Answer key

Q.1	1	Q.2	1	Q.3	2	Q.4	3	Q.5	4
Q.6	4	Q.7	3	Q.8	1	Q.9	3	Q.10	2
Q.11	2	Q.12	2	Q.13	2	Q.14	4	Q.15	1
Q.16	4	Q.17	3	Q.18	1	Q.19	2	Q.20	2
Q.21	3	Q.22	4	Q.23	3	Q.24	2	Q.25	2
Q.26	3	Q.27	3	Q.28	1	Q.29	2	Q.30	3
Q.31	2	Q.32	3	Q.33	1	Q.34	3	Q.35	1
Q.36	1	Q.37	3	Q.38	1	Q.39	1	Q.40	1

Q.41	3	Q.42	2	Q.43	1	Q.44	3	Q.45	1
Q.46	1	Q.47	2	Q.48	2	Q.49	3	Q.50	3

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Quantitative Aptitude

Q.1)- Find the area of a minor sector of a circle whose circumference is 88 cm and the length of its minor arc is 22 cm (use $\pi = \frac{22}{7}$).

1. 451 cm² 2. 154 cm² 3. 145 cm² 4. 415 cm²

Q.2)- The value of $3 + 2 \times [7 + (5 + 7) \div 2]$ is equal to:

1. 29 2. 65 3. 47 4. 39

Q.3)- Find the fourth proportion to 10, 12, and 15.

1. 22 2. 18 3. 16 4. 20

Q.4)- In an election, the winner was supported by 46% of all the voters in the list, and he got 410 votes more than his only rival. 10% of the voters on the voters' list did not cast their votes, and 60 voters cast their ballot papers blank. How many voters were on the list?

1. 17445 2. 17500 3. 16550 4. 15750

Simplify

$$5 \times [14 \div 13 \times \{13 \times 14 \div (14 \times 14)\}]$$

Q.5)-

1. 15 2. 20 3. 5 4. 10

Q.6)- Find the total surface area of a hemisphere with a radius of 11 cm?

1. 242π cm² 2. 363π cm² 3. 313π cm² 4. 273π cm²

Q.7)- The volumes of two spheres are in the ratio of 512: 3375. The ratio of their surface areas is:

1. 68 : 125 2. 27 : 144 3. 64 : 225 4. 49 : 325

Q.8)- Find the value of $(13.49 + 12.51) \times 13$.

1. 438 2. 138 3. 238 4. 338

Q.9)- Aarav owns a watch worth ₹10,000. He sells it to Bhavin at a profit of 15%. After some days, Bhavin sells it back to Aarav at 15% loss. Find the percentage profit or loss faced by Aarav.

1. 17.25% profit 2. 18.25% profit 3. 18.75% loss 4. 17.25% loss

Q.10)- The value of $30 + 180 \div 30 \times 6 - 15 - 16 - 60 \div 3 - 15$ is:

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

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Q.11)- Simplify $8.2 + 2.6 + 3.2 - 4.5 \div 0.9 \times 1.2$.

- 1. 6 2. 4 3. 8 4. 10**

Q.12)- Simplify the following expression:

$$25 \times 25 + 9 \times 9 + 6 \times 6 + 2 \times 25 \times 9 + 2 \times 9 \times 6 + 2 \times 25 \times 6$$

- 1. 1600 2. 2500 3. 1200 4. 900**

The value of $1 - \frac{7}{1 - \frac{7}{1 + \frac{7}{1 - 7}}}$ is:

Q.13)-

- 1. 2 2. 1 3. -1 4. 0**

Q.14)- A and B can do a work in 13 days and 26 days, respectively. If they work for a day alternately, starting with A, then in how many days will the work be completed?

- 1. 17 2. 14 3. 13 4. 16**

The table represents marks obtained by students A, B, C, D and E in five subjects in an examination. The maximum marks for each subject are 100.

Student	English	Math	Physics	Chemistry	Information Technology
A	94	100	97	100	100
B	87	93	85	96	95
C	92	100	98	95	100
D	79	92	91	76	97
E	77	85	94	99	98

Q.15)- In how many subjects have the students scored 100% marks?

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

Q.16)- Find the value of $(1 + \cot A - \operatorname{cosec} A)(1 + \tan A + \sec A) - 3(\sin^2 A + \cos^2 A)$.

- 1. 2 2. -1 3. -2 4. 1**

Q.17)- A mixture of 750 kg of alloy of copper and tin contains 25% tin. How much tin must be added so that it becomes 70% of the mixture?

- 1. 895 kg 2. 956 kg 3. 1097 kg 4. 1125 kg**

Q.18)- The strength of a school increases and decreases every alternate year by 15%. If it started with an increase in 2012, then the strength of the school in the beginning of 2015, as compared to that in 2012, had (correct to two decimal places):

- 1. Increased by 12.41 % 2. Decreased by 13.85 % 3. Increased by 13.85 % 4. Decreased by 12.41%**



Find the value of the given expression.

Q.19)- $\frac{1}{4} \times \frac{4}{3} \div \frac{5}{3} + \frac{1}{2}$

- 1. 0.7 2. 1.3 3. 2.1 4. 1.5**

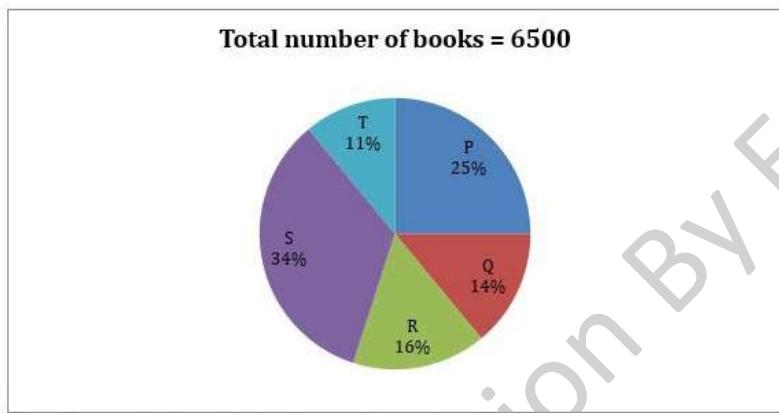
Q.20)- What is the length of the arc of a circle whose radius is 35 cm and whose arc subtends an angle of 72° at the centre of the circle?

- 1. 44 cm 2. 56 cm 3. 28 cm 4. 38 cm**

Q.21)- If $\sin \alpha = \frac{5}{13}$, then the value of $\cos \alpha \cdot \operatorname{cosec} \alpha \cdot \cot \alpha$ is _____.

- 1. $\frac{144}{25}$ 2. $\frac{25}{144}$ 3. $\frac{12}{5}$ 4. $\frac{5}{12}$**

The given pie chart shows the percentage distribution of a mathematics book in 5 different stores.



Q.22)- Find the central angle for the book in store S.

- 1. 117.5° 2. 122.4° 3. 118.9° 4. 107.3°**

Q.23)- Ashu can row 7.5 km an hour in still water. He finds that it takes four times as much time to row upstream, as it takes to row downstream. The speed of the stream is:

- 1. 2.5 km/h 2. 1.5 km/h 3. 3.5 km/h 4. 4.5 km/h**

Q.24)- On account of corona virus, 5% of the population of a village died. Out of the remaining population, 20% fled due to panic. If the present population is 4655, then what was the population of the village before the corona attack?

- 1. 5985 2. 6000 3. 5995 4. 6125**

Q.25)- If $(\sin x + \sin y) = a$ and $(\cos x + \cos y) = b$, then find the value of $(\sin x \sin y + \cos x \cos y)$.

- 1. $\frac{a^2 - b^2 - 2}{2}$ 2. $\frac{a^2 + b^2 - 1}{2}$ 3. $\frac{a^2 + b^2 + 2}{2}$ 4. $\frac{a^2 + b^2 - 2}{2}$**

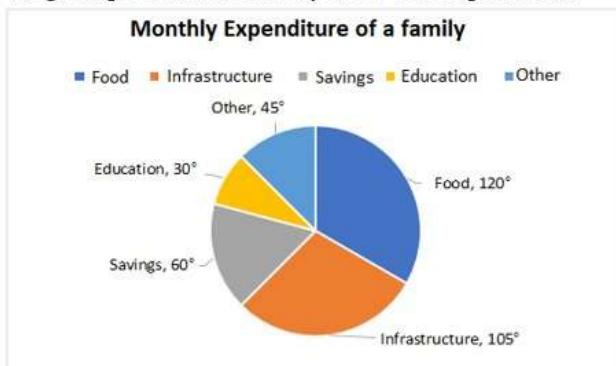
Q.26)- The volume of a cube is four times the volume of a cuboid. If the sides of the cuboid are 32 cm, 8 cm and 4 cm, then find the ratio of the total surface area of the cube to that of the cuboid.

- 1. 23 : 13 2. 22 : 13 3. 21 : 13 4. 24 : 13**

Q.27)- A 255-m long train is running at a speed of 72 km/h. It crosses a platform of length 745 m in:

- 1. 40 seconds 2. 51 seconds 3. 53 seconds 4. 50 seconds**

The savings and expenditure of a family in a month on different heads is shown in the given pie chart. The family saves ₹8,000 per month.



Q.28)- Find the expenditure (in ₹) on education.

- 1. 4000 2. 3500 3. 2500 4. 3000**

$$\text{Find the value of } \frac{12 + 3\frac{2}{3} \div \left[1\frac{3}{4} \div \left\{ 5\frac{1}{4} \times \left(3\frac{3}{5} + 4\frac{1}{2} \right) \right\} \right]}{1\frac{1}{3} \times 5\frac{1}{5}}.$$

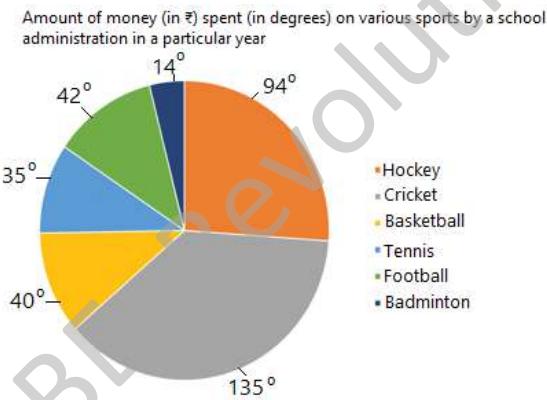
Q.29)-

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

Q.30)- Study the given pie-chart and answer the question that follows.

The pie-chart shows the amount of money (in ₹) spent (in degrees) on various sports by a school administration in a particular year.

If ₹21,000 was spent on Football, then the money spent on Tennis and Basketball taken together is what percentage (rounded off to 2 decimal places) of money spent on Hockey and Cricket taken



together?

- 1. 47.25% 2. 32.75% 3. 23.50% 4. 39.65%**

The length of the largest possible rod that can be placed in a cubical room is $42\sqrt{3}$ m. The surface area (in m^2) of the largest possible sphere that fit within the cubical room is:

[Use $\pi = \frac{22}{7}$]

Q.31)-

- 1. 2564 2. 5544 3. 3590 4. 4589**

Q.32)- A doll is marked for ₹2,500. A customer pays ₹1,800 for it. If the customer got a series of two discounts and the rate of the first discount is 10%, then the rate of the second discount is:

- 1. 20% 2. 18% 3. 15% 4. 25%**

Q.33)- A bus covers the first 50 km of its journey in 40 minutes and covers the remaining 75 km in 40 minutes. What is the average speed (in km/h) of the bus?

- 1. $105\frac{3}{4}$ 2. $95\frac{1}{4}$ 3. $93\frac{3}{4}$ 4. $101\frac{1}{4}$**

Q.34)- If L is the mid-point of the side YZ of XYZ, and the area of XYL is 13 cm^2 , then the area (in cm^2) of XYZ is ____.

- 1. 24 2. 22 3. 26 4. 20**

Study the given table and answer the question that follows.

The table shows the yearly production (in thousands) of scooters in five different factories (P, Q, R, S and T) from 1985 to 1989.

Yearly production (in thousands) of scooters in different factories.					
Factory	1985	1986	1987	1988	1989
P	20	15	24	13	17
Q	16	23	41	20	15
R	14	21	30	16	12
S	25	17	15	12	22
T	40	32	39	41	35
Total	115	108	149	102	101

In which year was the production of scooters in all factories equal to the

Q.35)- yearly average number of scooters produced from 1985 to 1989?

- 1. 1988 2. 1986 3. 1987 4. 1985**

Q.36)- Find the value of $\operatorname{cosec}\theta (1 - \cos\theta) (\operatorname{cosec}\theta + \cot\theta)$.

- 1. 1 2. 2 3. -1 4. 0**

Q.37)- What annual instalment will discharge a debt of ₹10,192 due in 3 years at 10% simple interest?

- 1. ₹3,044.48 2. ₹3,188.48 3. ₹3,144.48 4. ₹3,088.48**

Q.38)- The marked price of an article is 35% more than its cost price. If a discount of 15% is given, what will be the profit percentage?

- 1. $13\frac{2}{3}\%$ 2. $14\frac{3}{4}\%$ 3. $10\frac{1}{4}\%$ 4. $12\frac{3}{4}\%$**

Q.39)- A merchant bought two watches for ₹9,000 each. He sold one watch at a loss of 10%. At what price (in ₹) should he sell the other watch to earn a profit of 18% overall?

- 1. 13,410 2. 14,310 3. 14,130 4. 13,140**

Q.40)- Three boys, on an average, are 25 years old, and their age are in the ratio of 3 : 5 : 7. What is the age of youngest boy?

- 1. 24 years 2. 12 years 3. 21 years 4. 15 years**

A copper sphere of diameter 12 cm is drawn into a wire of diameter 4 mm. What is

Q.41)- the length (in cm) of the wire? (Where $\pi = \frac{22}{7}$)

- 1. 9000 2. 7823 3. 7200 4. 8342**

Based on the following table which shows production of the number of scooters by a company during the first half of 1992.

Type/Month	Jan	Feb	Mar	April	May	June
X	25	25	18	40	20	15
Y	25	27	50	45	30	20
Z	25	27	15	25	30	20
T	25	26	25	0	30	35
Total	100	105	108	110	110	90

In which month, did the company produce an equal number of all types of

Q.42)- scooters?

- 1. January 2. March 3. June 4. May**

Q.43)- Two circles with centers B and D have radii DA = 8 cm and BC = x cm, respectively. AC is tangent to both circles. If DB and AC intersect the point E, AE = 12 cm and EC = 18 cm, then find the value of x (in cm).

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

Q.44)- Simplify $9^{18} \div 3^{14}$ of $27^3 \times \sqrt{6561}$

- 1. 3^{16} 2. 3^{15} 3. 3^{18} 4. 3^{17}**

Q.45)- If $\alpha + \beta + \gamma = 0$, then $\frac{3\beta^2 + \alpha^2 + \gamma^2}{2\beta^2 - \alpha\gamma} = ?$

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

Q.46)- If $x = 3y + 4$, then what is the value of $(x^3 - 27y^3 - 36xy)$?

- 1. 8 2. 1 3. 64 4. 27**



Study the given table and answer the question that follows.

The table shows the percentage population of four states below poverty line and proportion of male to female.

State	Percentage of population below poverty line	Proportion of male to female	
		Below poverty line	Above poverty line
		Male : Female	Male : Female
A	36	5 : 3	3 : 4
B	27	6 : 7	4 : 7
C	46	2 : 3	3 : 1
D	32	1 : 2	2 : 7

If the population of states A and D is 18,000 each, then what is the total number of females below poverty line in these states?

- Q.47)-** **1. 6250 2. 6270 3. 6050 4. 6120**

Q.48)- Arvind works 4 times as fast as Suresh. If Suresh can complete a work in 20 days independently, then find the number of days in which Arvind and Suresh can together finish the work.

- 1. 3 2. 6 3. 5 4. 4**

Q.49)- Two cars run to a place at the speeds of 45 km/h and 55 km/h, respectively. If the second car takes 40 minutes less than the first for the journey, then what is the length of the journey (in km)?

- 1. 99 2. 180 3. 145 4. 165**

Q.50)- In a class, the numbers of boys and girls are in the ratio of 3 : 5. What is the percentage of boys in the class?

- 1. 60% 2. 42.5% 3. 37.5% 4. 12.5%**

Answer key

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

Course Enquiry





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By: Shubham Jain
(Selected as GST Inspector)
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Quantitative Aptitude

Q.1)- Two similar triangles of ΔXYZ and ΔLMN . If area of $(\Delta XYZ) = 16 \text{ cm}^2$, area of $(\Delta LMN) = 25 \text{ cm}^2$ and $YZ = 2.4 \text{ cm}$, then the measure of MN is:

- 1. 2 cm 2. 1 cm 3. 4 cm 4. 3 cm**

Q.2)- Study the given table and answer the question that follows.

The table shows the production of five types of cars P, Q, R, S and T by a company from the year 1989 to 1994.

In which year was the total production of cars of types P and Q together equal to the total production

Type of Car	1989	1990	1991	1992	1993	1994	Total
P	8	20	16	17	21	6	88
Q	16	10	14	12	12	14	78
R	21	17	16	15	13	8	90
S	4	6	10	16	20	31	87
T	25	18	19	30	14	27	133
Total	74	71	75	90	80	86	476

of cars of types R and S together?

- 1. 1992 2. 1989 3. 1993 4. 1991**

Q.3)- Simplify $22 \times 10 \div 5 \times 2 + 12$.

- 1. 101 2. 102 3. 100 4. 103**

Q.4)- The value of $9 \times 9 + 9 \div 9 - 9 \times 9 + 9 + 9 \times 9 - 9 - 9 \times 9$ is:

- 1. 81 2. 0 3. 1 4. 9**

If the surface areas of two spheres are in the ratio of 9: 49, then the ratio of their

Q.5)- volumes is: (Where $\pi = \frac{22}{7}$)

- 1. 49 : 363 2. 16 : 216 3. 27 : 343 4. 25 : 512**

Q.6)- The ratio of marks of A and B is 3 : 4 and the ratio of marks of B and C is 4 : 5. If the difference in the marks of C and A is 30, then how much marks does B get?

- 1. 60 2. 64 3. 52 4. 56**

Q.7)- If two circles of radii 35 cm and 25 cm touch each other externally, then the length (in cm) of a common tangent is (Rounded off to 2 decimal places)

- 1. 59.16 2. 52.25 3. 45.29 4. 60.00**

Q.8)- Mitu can do a piece of work in 12 hours, Titu and Situ together in 2 hours, and Mitu and Situ together in 3 hours. How long will Titu alone take to do it?



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

Q.9)- In a store, an item with marked price of ₹82,500 is available at a discounted price of ₹79,200. What is the percentage of discount given on that item?

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

Q.10)- If the radius of a sphere is increased by 40%, then find the percentage increase in its surface area.

1. 88% 2. 92% 3. 85% 4. 96%

Find the maximum value of

Q.11)- $(19 \sin \theta + 6 \cot \theta \sin \theta)$.

1. $\sqrt{197}$ 2. $\sqrt{497}$ 3. $\sqrt{397}$ 4. $\sqrt{297}$

Q.12)- Which of the following is true when $x = \sin A + \cos A$; $y = \sec A + \cosec A$?

1. $y(1 + x^2) = 2x$ 2. $y + 2x = x^2 y$ 3. $y(1 - 2x^2) = x$ 4. $y - 2x = x^2 y$

Q.13)- If $16x^4 + \frac{1}{16x^4} = 14159$, then find the value of $2x + \frac{1}{2x}$.

1. 12 2. 9 3. 11 4. 15

Q.14)- In alloys A and B, the ratio of lead to tin is 5 : 3 and 3 : 1, respectively. 80 kg of alloy A and 100 kg of alloy B are mixed together to form a new alloy. What is the amount of tin (in kg) in the new alloy?

1. 81.3 2. 90 3. 68 4. 55

Q.15)- A grocer purchased 10 kg rice for ₹700. He spends some amount on transportation and then sells it for ₹1,400. If the percentage of profit made by the grocer is 30%, then what is the amount (in ₹) he spends on transportation? (Round off to the nearest integer)

1. 300 2. 380 3. 350 4. 377

Q.16)- If $x + \frac{1}{x} = 2$, then find the value of $(x^4 + \frac{4}{(x)^4})(x^3 - \frac{4}{x^3})$.

1. 15 2. -10 3. -15 4. 10

A drainage tile is a cylindrical shell 42 cm long. The inside and outside diameters are 8 cm and 14 cm, respectively. What is the volume (in cm^3) of clay required for

Q.17)- the tile? (Use $\pi = \frac{22}{7}$)

1. 4125 2. 4356 3. 5241 4. 4881

Q.18)- In a ΔABC , angle $BAC = 30^\circ$ and angle $BCA = 60^\circ$. If $AC = 13$ cm and $AB = 12$ cm, then BC is equal to:

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

The following table shows the number of teachers in four colleges (male and female) and the percentage of trained teachers among them.

Colleges	Male		Female	
	No. of Teachers	% of Trained Teachers	No. of Teachers	% of Trained Teachers
A	225	44	175	40
B	250	30	128	25
C	290	55	100	45
D	350	60	150	30

Q.19)- What is the total number of non-trained male teachers in college A and non-trained female teachers in college B?

- 1. 222 2. 228 3. 224 4. 230**

Q.20)- If $40\% \text{ of } A = 60\% \text{ of } B = \frac{1}{6} \text{ of } C$, then find the ratio of A:B:C.

- 1. 15:10:18 2. 10:15:36 3. 15:10:36 4. 36:10:15**

Q.21)- A rectangular sheet of metal is 60 cm by 25 cm. Equal squares of side 5 cm are cut off at the corners and the remainder is folded up to form an open rectangular box. Find the volume of the box.

- 1. 4750 cm³ 2. 2750 cm³ 3. 5750 cm³ 4. 3750 cm³**

Q.22)- Triangle DEF is an equilateral triangle with a side length of 12 cm. If point G is the mid-point of side DE, what is the length (in cm) of side FG?

- 1. 12 2. 6 3. $6\sqrt{3}$ 4. $3\sqrt{6}$**

Q.23)- The value of $\frac{1}{4} + \frac{2}{5} \div \left[\left\{ 2\frac{1}{5} - 2 \right\} \times 5 \right] - \frac{2}{3} \text{ of } \frac{3}{5}$ is:

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

Q.24)- The value of $(4^2)^2 + 4 \times 4 \div 4 - 4$ is:

- 1. 4^2 2. 4^0 3. 4^3 4. 4^4**

Q.25)- In an election between two candidates, 10% of the voters did not cast their votes and 75 votes were found invalid. The winner got 50% of the total votes expected and won by 170 votes. How many voters were enrolled in the voters' list?

- 1. 850 2. 800 3. 950 4. 855**

Q.26)- Study the given table and answer the question that follows.

The table shows the number of students in various courses in various cities A, B, C, D and E in India during the academic year 2022-2023.



In all the cities altogether, what is the difference between the students of science and those of MBA?

City	MBA	Science	Engineering	Medicine	MCA	Total
A	1200	2560	4520	1100	960	10340
B	1350	2650	5100	1050	850	11000
C	1250	2640	4580	1120	750	10340
D	1960	1250	3500	1850	1600	10160
E	1200	2100	3500	1960	1540	10300
Total	6960	11200	21200	7080	5700	

- 1. 4540 2. 4240 3. 4340 4. 4440**

Q.27)- Simplify $\{38 - (-6)\} \times \{9 - (8 - 1)\} \div [4 \times \{6 + (-4)\}]$.

- 1. 18 2. 22 3. 11 4. 14**

Q.28)- 18 workers can complete a piece of work in 96 days. They start working together and after 26 days 10 more workers join them. In how many days in all will the work be completed?

- 1. 72 2. 70 3. 71 4. 69**

Q.29)- Simplify $35 - [30 + \{10 + (12 - 10 - 4)\}]$.

- 1. -3 2. 3 3. -2 4. 2**

Q.30)- A man travels some distance at a speed of 12 km/h and returns at a speed of 8 km/h. If the total time taken by him is 3 hours and 45 minutes, then the total distance (in km) travelled is:

- 1. 24 2. 36 3. 32 4. 42**

Simplify the following expression:

$$\frac{(525 + 175)^2 - (525 - 175)^2}{(525 \times 175)}$$

Q.31)-

- 1. 700 2. 4 3. 2 4. 350**

Q.32)- R reaches office from home in 30 minutes and comes back in 20 minutes. The distance to his office from home is 12.5 km. What is his average speed (in km/h) from home to office and then back home?

- 1. 30 2. 60 3. 20 4. 25**

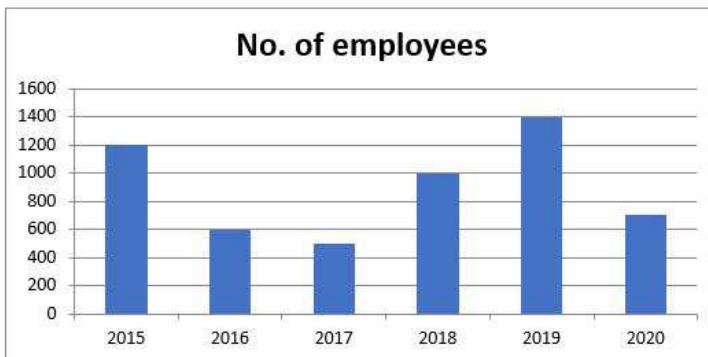
Q.33)- If 24 people can build 90 identical walls in 25 days, then how many more days will 27 people require to build 162 such walls?

- 1. 13 2. 16 3. 15 4. 14**

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The following bar graph shows the recruitment of employees in different years of a particular department.



Q.34)- The percentage increase in the recruitment of employees from 2017 to 2018 is:

- 1. 120% 2. 130% 3. 150% 4. 100%**

If $\tan \theta = \frac{3}{10}$, then find the value of $\frac{(1+\sin \theta)(1-\sin \theta)}{(1+\cos \theta)(1-\cos \theta)}$.

Q.35)-

- 1. $\frac{100}{3}$ 2. $\frac{100}{9}$ 3. $\frac{100}{7}$ 4. $\frac{50}{3}$**

Q.36)- A person deposited some amount of money in the bank at simple interest. After 20 years, the amount became nine times the amount deposited. In how many years will the amount become 13 times the amount if the interest rate remains the same?

- 1. 30 2. 25 3. 28 4. 23**

Q.37)- Find the surface area (in cm^2) of a sphere of diameter 28 cm. (Use $\pi = \frac{22}{7}$)

- 1. 2464 2. 2856 3. 1724 4. 1731**

The value of $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{5 + \frac{1}{2 + \frac{1}{3}}}}}$ is:

Q.38)-

- 1. $1\frac{13}{45}$ 2. $2\frac{17}{45}$ 3. $1\frac{38}{45}$ 4. $2\frac{11}{45}$**

Q.39)- Study the given table and answer the question that follows.

The table shows the number of students in various courses in various cities A, B, C, D and E in India during the academic year 2022-2023.

What was the average number of students in Science course in all the cities altogether during the

City	MBA	Science	Engineering	Medicine	MCA	Total
A	1200	2560	4520	1100	960	10340
B	1350	2650	5100	1050	850	11000
C	1250	2640	4580	1120	750	10340
D	1960	1250	3500	1850	1600	10160
E	1200	2100	3500	1960	1540	10300
Total	6960	11200	21200	7080	5700	

academic year 2022-2023?

- 1. 2240 2. 2250 3. 2220 4. 2200**

Q.40)- A dishonest dealer sells his goods at 20% loss on the cost price but uses a faulty weight that weighs 25% less. His profit or loss percentage (rounded off to 2 decimal places) is:

- 1. 6.67%, profit 2. 6.67%, loss 3. 3.33%, profit 4. 3.33%, loss**

Q.41)- In an election, A received 27% of the votes and B received 125,982 votes. 19% did not cast their votes. Find the number of votes received by A.

- 1. 57,827 2. 44,327 3. 1,88,973 4. 62,991**

The following table shows the number of delivery partners (in thousands) who joined five different companies during six different years.

Year	Companies				
	Emazon	Clipkart	Twiggy	Tomato	Pyntra
2016	2.4	4.5	1.2	0.9	4.2
2017	1.8	5.4	1.5	1.2	5.6
2018	3.2	7.2	2.4	2.1	6.3
2019	3.9	5.6	2.8	2.7	6.5
2020	4.2	6.4	3.2	3.3	7.0
2021	5.0	7.2	3.6	3.6	7.2

If Emazon decides to give an average salary of ₹21,000 to the delivery partners and allocates ₹13.44 crore for the

Q.42)- same in 2022, find the percentage increase in the number of delivery partners from 2021 to 2022.

- 1. 22.5% 2. 25% 3. 20% 4. 28%**

Q.43)- If $\tan\theta = 7/24$, then find the value of $(\cos^2\theta - \sin^2\theta)$.

- 1. $\frac{527}{625}$ 2. $\frac{576}{550}$ 3. $\frac{520}{625}$ 4. 1**

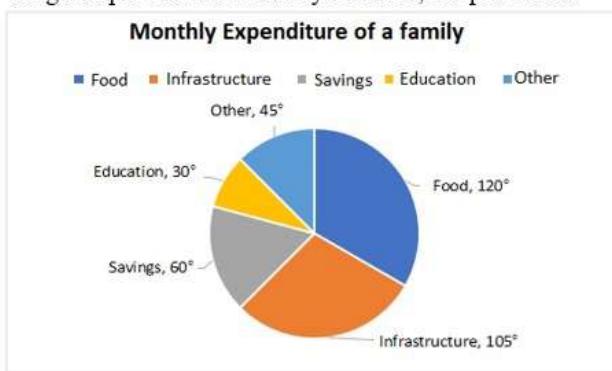
Q.44)- A train covers a distance of 56 km in 35 minutes. Travelling at the same speed, in how many seconds will the train cover a distance of 720 metres?

- 1. 27 2. 32 3. 30 4. 24**

Q.45)- The value of $5 + [6 + (3 + 5) \div 2] \div 2$ is equal to:

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

The savings and expenditure of a family in a month on different heads is shown in the given pie chart. The family saves ₹8,000 per month.



Q.46)- Find the total monthly expenditure (in ₹) of the family.

- 1. 30000 2. 40000 3. 25000 4. 35000**

Q.47)- Simplify $\frac{92736}{(274+830) \text{ of } \frac{7}{4}} + 513$

- 1. 526 2. 546 3. 574 4. 561**

Q.48)- A man's speed in still water is 4 km/h more than the speed of the current. If the man takes a total of 10 h to cover 45 km downstream and 35 km upstream, then the speed of the man in still water is:

- 1. 15 km/h 2. 22 km/h 3. 18 km/h 4. 20 km/h**

Q.49)- The population of a town increases 8% annually. If its present population is 1,42,560, what was the population one year ago?

- 1. 1,33,000 2. 1,32,000 3. 1,34,000 4. 1,31,000**

Q.50)- A product was offered at a 10% trade discount on the marked price. After a cash discount of 10%, the product was sold for ₹7,290. The marked price (in ₹) is:

- 1. 8,510 2. 9,000 3. 8,900 4. 8,720**

Answer key

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



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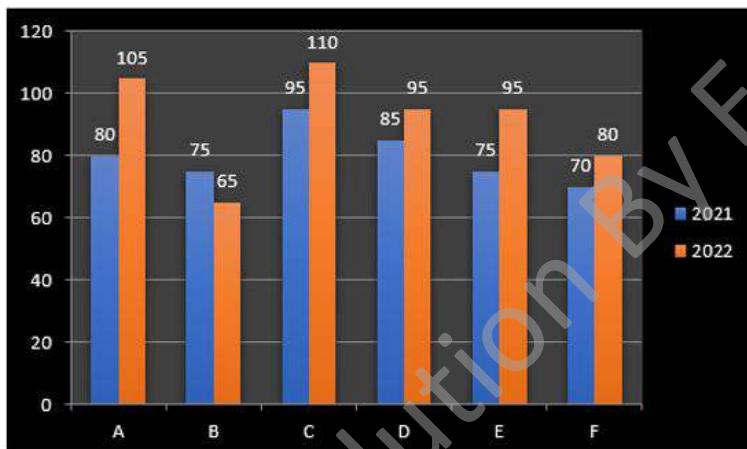
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Quantitative Aptitude

Q.1)- Of the three angles of a triangle, one is twice the smallest and another one is thrice the smallest. Find the value of the smallest angle.

1. 45° 2. 60° 3. 65° 4. 30°

The following bar graph shows the sales (in thousands) of magazines from six branches (A, B, C, D, E and F) of a publishing company during two consecutive years 2021 and 2022.



Q.2)- What percentage of the total sales of branch C for both years is the total sales of branch F for both years? (round your answer up to two decimal places)

1. 73.17% 2. 53.25% 3. 85.25% 4. 65.21%

Q.3)- A retailer marks up his goods by 130% and offers 25% discount. What will be the selling price (in ₹) if the cost price is ₹ 1600?

1. 3680 2. 1765 3. 2760 4. 1980

Q.4)- Ravi and Sanju together can do a job in 2 days, Sanju and Mahesh can do it in 4 days, while Ravi and Mahesh can do it in 2 days. What is the number of days required for Ravi to do the same job alone?

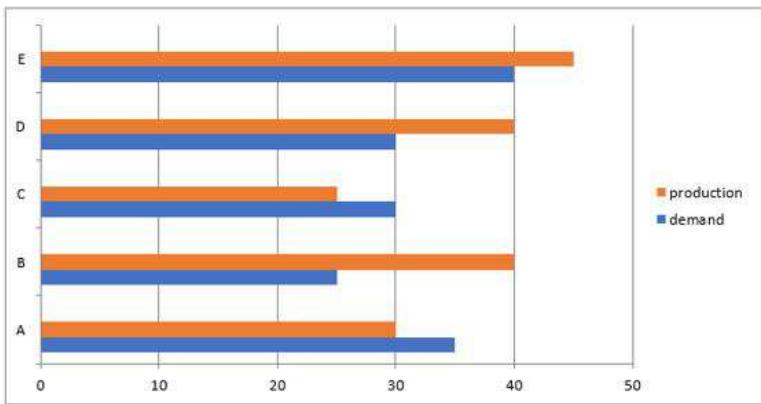
1. 9 days 2. $\frac{8}{3}$ days 3. 4 days 4. $\frac{5}{3}$ days

Q.5)- A certain amount of money becomes thrice in 5 years at compound interest. How many years it will take to become 9 times?

1. 10 years 2. 8 years 3. 25 years 4. 15 years



The following bar graph indicates the demand and production (in hundreds) of 5 companies A, B, C, D and E. X-axis indicates the demand and production (in hundreds) and Y-axis indicates the companies. Study the bar graph carefully and answer the question that follows.



Q.6)- Find the difference between the average demand and average production of the five companies taken together.

- 1. 500 2. 2000 3. 400 4. 1000**

The radius of a hemispherical bowl is 9 cm. The capacity of the bowls is:

Q.7)- (Use $\pi = \frac{22}{7}$)

- 1. 1527.43 cm³ 2. 1428.78 cm³ 3. 1625.37 cm³ 4. 1821.47 cm³**

Q.8)- One laddoo with a radius of 5 cm belongs to a shopkeeper. How many laddoos of radius 2.5 cm may be created from the same one laddoo?

- 1. 4 2. 2 3. 6 4. 8**

Q.9)- A seller offers a discount of 12% if the total sale price of different products purchased by a single customer is below ₹3,000, and discount of 15% if the total sale value of all the products exceeds ₹3,000. A shirt costing ₹900 was sold to Anand after earning a margin of 9% and also a jacket costing ₹1,900 was sold to him after a margin of 6%. How much does Anand have to pay (in ₹) for the final settlement of the bill?

- 1. 2,953.60 2. 2,645.60 3. 3,005.40 4. 2,635.60**

Q.10)- Find the natural number obtained when the number 13 is subtracted from the mean proportional of 75 and 12.

- 1. 14 2. 17 3. 30 4. 27**

Q.11)- The angles of a triangle are in the ratio 1 : 2 : 3, then find the ratio of the corresponding sides.

- 1. 1 : 2 : 3 2. 1 : $\sqrt{2}$: 3 3. 1 : 2 : $\sqrt{3}$ 4. 1 : $\sqrt{3}$: 2**

Q.12)- The following table shows the classification of 100 students based on the marks obtained by them in Maths and Science in an examination.

Find the number of students scoring less than 40% marks in aggregates.

Subjects	Marks out of 100				
	80 and above	60 and above	40 and above	20 and above	0 and above
Maths	12	35	80	94	100
Science	16	43	76	88	100
Average (Aggregate)	14	39	78	91	100

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

Q.13)- Find the value of $\{[(82 + 48 \div 8 \times 3) + 5 \times 6] - 7.5 \times 2\}$.

- 1. 130 2. 115 3. 125 4. 121**

Q.14)- A boatman rows 2 km in 10 mins, along the stream and 12 km in 2 hours against the stream. What is the speed of the stream?

- 1. 3.5 km/h 2. 2.5 km/h 3. 4 km/h 4. 3 km/h**

Q.15)- Which of the following statements is/are correct?

- A. A triangle can have all angles less than 60° .
- B. A triangle can have one obtuse angle.
- C. A triangle can have two right angles.
- D. A triangle can have two acute angles.

- 1. B and D 2. B 3. A and C 4. A**

Q.17)- A sum of ₹17,600 was divided between Jeevan, Praveen and Kanan, such that the ratio of the sums received by Jeevan and Praveen was 5 : 8, while the ratio of the sums received by Praveen and Kanan was 3 : 2. How much money did Jeevan receive as his share?

- 1. ₹4,850 2. ₹4,900 3. ₹4,750 4. ₹4,800**

Q.18)- If $a + 2b + 3c = 0$, then what is the value of $(a^3 + 8b^3 + 27c^3)$?

- 1. 6 abc 2. 0 3. 18 abc 4. 12 abc**

Q.19)- In how many years will ₹2,500 be invested at the rate of 12% per annum simple interest, which amounts to ₹4,900?

- 1. 4 2. 2 3. 6 4. 8**

Solve the equation for A (in degrees):

Q.20)- $2 \cos^2 A + 3 \cos A - 2 = 0, \quad 0 < A < 90^\circ$

- 1. 60° 2. 30° 3. 80° 4. 45°**

If $\frac{(\sec A + \tan A)}{\sec A - \tan A} = 2 \frac{51}{79}$, then the value of $\sin A$ is equal to:

Q.21)-

- 1. $\frac{65}{144}$ 2. $\frac{87}{169}$ 3. $\frac{61}{169}$ 4. $\frac{77}{144}$**



The radius of the base and height of a cone are 5 cm and 6 cm, respectively, whereas the radius of the base and height of a cylinder are 2.5 cm and 3 cm, respectively. The ratio of the volume of the cone to that of the cylinder is:

Q.22)- (Where $\pi = \frac{22}{7}$)

- 1.** 8 : 3 **2.** 3 : 5 **3.** 9 : 4 **4.** 8 : 5

Q.23)- Find the value of $\frac{1 - \cot^2 \theta}{\tan^2 \theta - 1}$.

- 1.** $\cot \theta$ **2.** $\tan \theta$ **3.** $\cot^2 \theta$ **4.** $\tan^2 \theta$

Q.24)- A and B together can complete a piece of work in 25 days, B and C together can complete the same piece of work in 36 days, while C and A together can complete it in 30 days. If A, B, C, and D together can complete this piece of work in 18 days, then in how many days can D alone complete this piece of work?

- 1.** 200 **2.** 210 **3.** 180 **4.** 225

Q.25)-

The cost of painting a spherical vessel of diameter 14 cm is ₹21,560. What is the cost of painting (in ₹) per square centimetre? (Use $\pi = \frac{22}{7}$)

- 1.** 35 **2.** 30 **3.** 32 **4.** 28

The value of $1 - \frac{1}{1 + \frac{1}{2 - \frac{1}{2 + \frac{1}{3}}}}$ is:

Q.26)-

- 1.** $\frac{7}{15}$ **2.** $\frac{7}{18}$ **3.** $\frac{3}{11}$ **4.** $\frac{3}{16}$

Q.27)- The value of $64 \div [44 - (8 \text{ of } 3 - 16) \div 4 \times 20]$ is equal to:

- 1.** 15 **2.** 18 **3.** 12 **4.** 16

Q.28)- Anwesha's marks in a class text of Sanskrit were incorrectly entered as 99 instead of 66. If there are 55 students in the class, then what is the increment in the average marks of the class in Sanskrit because of this typing error?

- 1.** 0.2 **2.** 0.4 **3.** 0.6 **4.** 0.8

Q.29)- A shopkeeper buys oranges at the rate of 10 oranges for ₹50 and sells them at the rate of 12 oranges for ₹74. Find his gain or loss percentage.

- 1.** 25% gain **2.** 30% loss **3.** $25\frac{1}{3}\%$ loss **4.** $23\frac{1}{3}\%$ gain

Q.31)- Two trains 230 m and 270 m long are running in opposite directions at speeds of 42 km/h and 48 km/h, respectively. They cross each other in:

- 1.** 20 seconds **2.** 25 seconds **3.** 30 seconds **4.** 22 seconds



Simplify the following expression:

$$\frac{3.2 \times 3.2 - 0.2 \times 0.2}{0.2 \times 0.2 - 2 \times 0.2 \times 3.2 + 3.2 \times 3.2}$$

- Q.32)-** **1.** $\frac{11}{15}$ **2.** $\frac{13}{15}$ **3.** $\frac{19}{15}$ **4.** $\frac{17}{15}$

The following table gives the information of number of students from various schools playing various games: (one student play one game only)

Game/School	A	B	C	D	E
Cricket	100	150	200	300	200
Tennis	200	220	210	210	230
Football	150	170	130	150	150
Basket ball	180	170	150	130	120
Badminton	100	150	120	130	150

The difference between the total number of students playing cricket from all the schools and the total number of students playing Tennis from all the schools is:

- Q.33)-** **1.** 150 **2.** 80 **3.** 100 **4.** 120

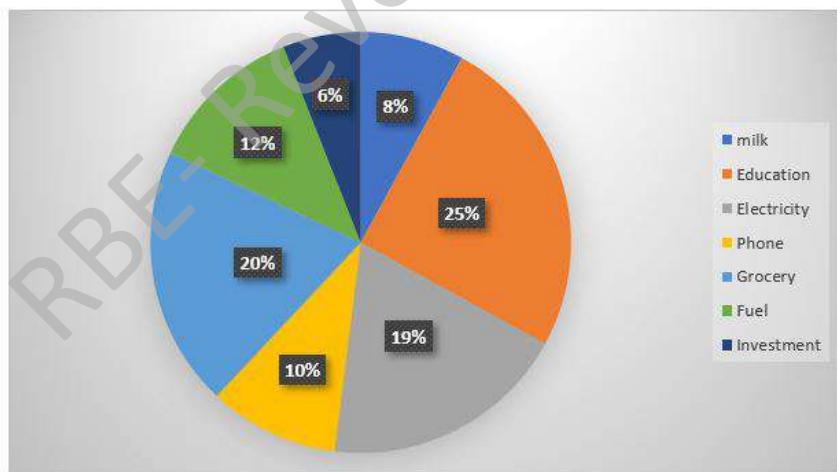
Q.34)- A boat covers 24 km upstream and 36 km downstream in 10 hours, and 36 km upstream and 24 km downstream in 12 hours. The speed of the current is:

- 1.** $\frac{24 \text{ km}}{7 \text{ h}}$ **2.** $\frac{33 \text{ km}}{13 \text{ h}}$ **3.** $\frac{25 \text{ km}}{8 \text{ h}}$ **4.** $\frac{26 \text{ km}}{9 \text{ h}}$

Q.35)- A reduction of 7.5% in the cost price of a commodity enables a shopkeeper to purchase 15 kg more than what he previously purchased for a sum of ₹7,400. In order to make a profit of 32.5% on the pre-reduction cost price of the commodity, at what price (in ₹) per kg should the commodity be sold?

- 1.** 53 **2.** 54 **3.** 52 **4.** 51

The given pie chart shows the budget estimated by a family for their monthly expenses. Monthly expenses = ₹58,000.



Find the difference between the amount budget amount for grocery and electricity to the amount spent on grocery and electricity, if the family actually spent

- Q.36)-** ₹18,875 on both grocery and electricity.

- 1.** ₹3,745 **2.** ₹4,375 **3.** ₹4,573 **4.** ₹3,547

Q.37)- Simplify $[25 - (-4)\{9 - (6 - 2)\}] \div [3 \times \{6 + (-3) \times (-3)\}]$.

- 1. 2 2. 6 3. 1 4. 4**

Q.38)- The value of $29 - [(48 \div 12) + 2 \times (8 \div 4 + 4)]$ is equal to:

- 1. 21 2. 19 3. 15 4. 13**

Q.39)- The following table shows the gross turnover (in crores) of a company over 5 years.

By what percentage is the gross turnover of 2020 higher than the gross turnover of 2018?

Year	Gross Turnover
2016	12
2017	18
2018	25
2019	25
2020	30

- 1. 20% 2. 5% 3. 25% 4. 13%**

Q.40)- In an election between two candidates, the candidate who gets 35% of the votes polled is defeated by 15,900 votes. What is the total number of votes polled?

- 1. 53,000 2. 35,000 3. 45,000 4. 43,000**

Q.41)- If $x [-5 \{-4(-a)\}] + 6 [-3 \{-3(-a)\}] = 6a$, then the value of x is:

- 1. -3 2. 0 3. 2 4. -1**

Q.42)- A number is first decreased by 10%, then increased by 30% and then further it is decreased by 20%. What is the net decrease percentage in the number?

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

Study the given tables and answer the question that follows.

The tables show the number of candidates (in lakh) appearing in an entrance exam from four different cities and the ratio of candidates passing and failing in the same.

City	P	Q	R	S
Number of candidates	1.10	2.26	2.12	1.46

Ratio of candidates passing and failing within the city:

City	Passing	Failing
P	6	5
Q	3	7
R	5	7
S	3	5

The number of candidates passing the exam from city Q is what percentage of the total number of candidates appearing from all the cities together (rounded off to 2 decimal places)?

Q.43)-

- 1. 11.25% 2. 10.70% 3. 12.93% 4. 9.77%**

Q.44)- S drives his car and covers 37 km and 500 m in 90 minutes. What is his average speed (in km/h)?

- 1. 25 2. 22.5 3. 40 4. 20**



Find the area (in cm^2) of the sector of a circle of radius 21 cm
 with a central angle of 60° . [Use $\pi = \frac{22}{7}$]

- Q.45)-** 1. 231 2. 289 3. 245 4. 302

Q.46)- If $x = 110$, $y = 111$, $z = 112$, then find the value of $x^3 + y^3 + z^3 - 3xyz$.

1. 999 2. 997 3. 995 4. 991

Q.47)- The value of $5\frac{1}{4} - \left[3\frac{1}{2} - \left\{ \frac{5}{6} - \left(\frac{3}{5} \times \frac{1}{10} \div \frac{4}{15} \right) \right\} \right]$ is:

1. $2\frac{43}{120}$ 2. $2\frac{47}{120}$ 3. $1\frac{97}{120}$ 4. $1\frac{81}{120}$

Q.48)- Simplify
 $1898 \div \left[\frac{13}{4} \times (35 + 45) - \frac{91}{4} \right]$

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

Q.49)- Simplify $\frac{\cos 13^\circ + \sin 13^\circ}{\cos 13^\circ - \sin 13^\circ}$.

1. $\cos 26^\circ$ 2. $\cot 58^\circ$ 3. $\tan 58^\circ$ 4. $\tan 32^\circ$

Q.50)- The length of the side of a cube is 8 cm. Find the volume of the cube?

1. 512 cm^3 2. 664 cm^3 3. 564 cm^3 4. 612 cm^3

Answer key

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





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Quantitative Aptitude

Q.1)- A cylinder has a radius of 7 cm and the area of its curved surface is 396 cm^2 . The volume of the cylinder is:

- 1. 1381 cm^3 2. 1396 cm^3 3. 1386 cm^3 4. 1391 cm^3**

Q.2)- What is the length (in cm) of chord PQ in a circle with a radius of 7 cm, where a diameter AB and non-diameter chord PQ intersect perpendicularly at point C, and the ratio of AC to BC is 4 : 3?

- 1. $6\sqrt{3}$ 2. $2\sqrt{3}$ 3. $8\sqrt{3}$ 4. $4\sqrt{3}$**

Q.3)- If $\sin x + \cos x = \sqrt{2} \sin x$, then the value of $\sin x - \cos x$ is:

- 1. $-\sqrt{2} \cos x$ 2. $\sqrt{2} \sin x$ 3. $2 \sin x$ 4. $\sqrt{2} \cos x$**

Q.4)- The population of a city increases every year at the rate of 5%. If the population of the city is 16000, what will be the population after 2 years?

- 1. 17000 2. 17600 3. 17640 4. 17700**

Q.5)- A man travels 1200 km by train at 80 km/h, 1600 km by ship at 40 km/h, 1000 km by plane at 400 km/h, and 200 km by car at 50 km/h. What is the average speed for the entire distance? (rounded off to 2 decimal places)

- 1. 65.04 km/h 2. 68.14 km/h 3. 75.40 km/h 4. 72.40 km/h**

Q.6)- नीचे दी गई तालिका 2018-2022 के दौरान लगाए गए 3 अलग-अलग फलों के पेड़ों की संख्या दर्शाती है। तालिका का ध्यानपूर्वक अध्ययन कीजिए और उसके आधार पर दिए गए प्रश्न का उत्तर दीजिए।

2018 में लगाए गए आम के पेड़ों की संख्या की तुलना में 2020 में लगाए गए आम के पेड़ों की संख्या में कितने प्रतिशत की वृद्धि हुई?

वर्ष	कटहल	आम	बटर फ्रूट
2018	35,000	40,000	55,000
2019	38,000	48,000	58,000
2020	42,000	52,000	62,000
2021	45,000	55,000	65,000
2022	48,000	58,000	68,000

- 1. 23.08% 2. 17.5% 3. 15% 4. 30%**

Q.7)- Simplify the given expression. $1000 \times 100 - 1000 + 4000 \div 200$

- 1. 99235 2. 99999 3. 99020 4. 99980**

Q.8)- Simplify $(4 + 4) \times (4 \div 4) \times (4 \times 4)$.

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1. 144 2. 124 3. 128 4. 130

Q.9)- If $\tan \theta + \cot \theta = 6$, then the value of $\tan^2 \theta + \cot^2 \theta$ is ____.

1. 24 2. 34 3. 20 4. 22

Study the given table and answer the question that follows.

Category	2019	2020
Raw material	5000	6000
Power and fuel	10000	12000
Salary and wages	8000	12000
Advertising	10000	20000

Find the difference between the least percentage increase and the highest percentage increase in year 2019-2020.

Q.10)-

1. 60% 2. 80% 3. 70% 4. 50%

Q.11)- Simplify the following expression. $(6 + 6 \text{ of } 5 \div 5) \div 6 \text{ of } 5 + (24 \div 2 \text{ of } 3 - 6 \text{ of } 5 + 4)$

1. $-17\frac{2}{5}$ 2. $-21\frac{3}{5}$ 3. $-26\frac{2}{5}$ 4. $-23\frac{1}{5}$

Q.12)- If four distinct positive numbers, a, b, c and d, in the order given are in proportion, then which of the following options is NOT correct?

- 1. a, c, b and d, in the order given are in proportion.**
- 2. d, c, b and a, in the order given are in proportion.**
- 3. c, d, b and a, in the order given are in proportion.**
- 4. b, a, d and c, in the order given are in proportion.**

Q.13)- Find the simplified value of $5055 - (1002 \div 20.04)$.

1. 50.05 2. 5005 3. 4050 4. 5050

If $4\sin^2 \theta = 3(1 + \cos\theta)$, $0^\circ < \theta < 90^\circ$, then what is the value of $\sqrt{15}\tan\theta + \frac{4}{\sqrt{15}}\sin\theta + 2\sec\theta$?

Q.14)-

1. $\frac{8}{\sqrt{15}}$ 2. 8 3. 24 4. $4\sqrt{15}$

Q.15)- In an election between A and B, every fifth vote polled was marked as invalid by the machine. In the remaining votes, A wins the election with a margin of 2500 votes or 10% of the total votes polled, over B. If 90% of the invalid votes would have been in favour of B, then which of the following would have been the result of the election?

- 1. B would have won by 8%**
- 2. B would have won by 3%**
- 3. A would have won by 3%**
- 4. A would have won by 8%**

Q.16)- Manish, Nakul and Pintoo alone can complete a certain work in 21 days, 28 days and 15 days, respectively. Manish and Pintoo started the work together while Nakul joined them after 5 days and worked with them till the completion of the work. For how many days did Nakul work?

1. $2\frac{6}{7}$ 2. $2\frac{1}{2}$ 3. $3\frac{1}{2}$ 4. $5\frac{1}{2}$

The following table shows the population (in hundreds) of five different cities (A, B, C, D and E) categorised by gender.

City	Population	Men: Women
A	2340	1:2
B	900	3: 1
C	1510	3: 2
D	2010	2:3
E	1750	4: 3

Q.17)- What is the total number of women (in hundreds) in City A and City B?

1. 1658 2. 1785 3. 1898 4. 1998

Q.18)- Simplify $\left[3\frac{2}{5} \times \left\{2\frac{3}{4} + 3.3 \left(5\frac{1}{3} + 3\frac{1}{3} - 2\frac{1}{3}\right)\right\}\right]$

1. 80.41 2. 46.29 3. 53.25 4. 70.25

Q.19)- In a class, there are 60 students. The average weight of the entire class is 42 kg. If there are 36 boys in the class and the average weight of all the boys is 50 kg, then what is the average weight (in kg) of all the girls?

1. 34 2. 30 3. 36 4. 32

Q.20)- If the three sides of a triangle are 12, 22 and m units, then which of the following is correct?

1. $10 < m \leq 34$ 2. $10 < m < 34$ 3. $10 \leq m \leq 34$ 4. $10 \leq m < 34$

Q.21)- Find the value of 15% of $1.5 + 0.15 \div 0.1 + 0.01$ of $1.1 \times 0.5 + 2.5 \times 25$.

1. 6.42305 2. 77.2305 3. 62.2305 4. 64.2305

A cylinder of radius 7 cm has a curved surface area of 2200 cm^2 . Find its total

Q.22)- surface area. (Use $\pi = \frac{22}{7}$)

1. 2550 cm^2 2. 2508 cm^2 3. 2260 cm^2 4. 1580 cm^2

Study the given table and answer the question that follows.

The table shows the number of eggs produced in five farms.

Year	Farm				
	P	Q	R	S	T
2010	1020	1418	1630	1740	1580
2011	1260	1390	1460	1530	1620
2012	1120	1765	1480	1515	1640
2013	1465	1555	1746	1418	1545

What is the respective ratio of the dozens of eggs produced by farm P to farm T in

Q.23)- the year 2011?

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

Q.24)- A train covers a distance of 850 metres in 45 seconds. Travelling at the same speed, how many kilometres will the train cover in an hour?

- 1. 67.2 2. 68 3. 67.5 4. 69**

Q.25)- The distance (d) a moving body travels, varies directly with the time (t) when it moves. A train travels 72 km in 2 hours. Find the equation that relates d and t.

- 1. $d = t - 36$ 2. $d = \frac{t}{36}$ 3. $d = 36t$ 4. $d = t + 36$**

Q.26)- A shopkeeper gives a discount of 12% on the purchase of 10 kg of sugar. The cost price of the sugar is ₹30/kg, and the marked price is ₹38/kg. The weighing machine of the shopkeeper is faulty, and it shows weight of 1 kg when the actual weight is 900 grams. Find the percentage profit of the shop keeper (rounded off to two decimal places).

- 1. 23.85% 2. 12.5% 3. 22.25% 4. 30.18%**

Q.27)- Shiya invests ₹1,53,000, which is 30% of her annual income, in mutual funds. What is her monthly income (in ₹)?

- 1. 55,600 2. 42,500 3. 45,800 4. 52,300**

Ramnarayan's salary was reduced by $3\frac{1}{8}\%$, and then, the reduced salary was increased by $7\frac{2}{5}\%$. By what percentage (rounded off to two decimal places) is his new salary more/less as compared to his original salary?

Q.28)-

- 1. 3.03% less 2. 4.04% more 3. 4.04% less 4. 3.03% more**

Q.29)- A spherical box has surface area 528 cm^2 . Find the radius of the spherical box.

- 1. $\sqrt{37} \text{ cm}$ 2. $\sqrt{35} \text{ cm}$ 3. $\sqrt{29} \text{ cm}$ 4. $\sqrt{42} \text{ cm}$**

Q.30)- If $855 \div 15 - k + 32 \times 5 = 1152 \div 16 \times 111 \div 37$, then the value of k is:

- 1. 3 2. 0 3. 2 4. 1**

Q.31)- A hollow sphere of external and internal diameters of 10 cm and 6 cm, respectively, is melted and made into another solid in the shape of a right circular cone of base diameter 10 cm. Find the height of the cone.

- 1. 16.68 cm 2. 15.68 cm 3. 14.68 cm 4. 13.68 cm**

Q.32)- The sum of two numbers is 28 and the sum of their squares is 528. Find the square root of the product of both the numbers.

- 1. $2\sqrt{2}$ 2. $4\sqrt{2}$ 3. $8\sqrt{2}$ 4. $6\sqrt{2}$**

Q.33)- If $(a - 18)^2 + (b - 12)^2 + (c - 6)^2 = 0$, then find the value of $(a + b + c)^{\frac{1}{2}}$.

- 1. ±3 2. ±2 3. ±6 4. ±4**

The area of a sector of a circle having radius 14 cm is 231 cm^2 . Find the degree measure of the corresponding central angle.

Q.34)- (Use $\pi = \frac{22}{7}$)

- 1. 150° 2. 125° 3. 135° 4. 140°**

Study the given table and answer the question that follows.

The table below shows the number of people who responded to a survey about their favourite style of music.

Age	25-30	31-50	51+
Classical	2	9	16
Pop	10	16	8
Hip-Hop	4	7	6
Rock	14	17	14
Ambient	7	13	20
Total	37	62	64

What percentage of respondents aged 31-50 indicated a favourite style other than Pop music (rounded off to 2 decimal places)?

Q.35)-

- 1. 78.20% 2. 76.25% 3. 82.39% 4. 74.19%**

Simplify the given expression.

Q.36)- $[(9 \times 81 + (142 \div 2)) + 350 - 155 + 5] \div [(25 \times 25) - 125]$

- 1. -1 2. 2 3. 1 4. -2**

Q.37)- Applied to a bill for ₹1000, what is the difference between a discount of 40% and two successive discounts of 36% and 4%?

- 1. ₹14.40 2. ₹154 3. ₹144 4. ₹15.40**

Q.38)- Ronak and Riya can do a work in 12 and 18 days, respectively. They worked together for six days and then Ronak left. Find the time taken by Riya to complete the work.

- 1. 6 days 2. 3 days 3. 5 days 4. 7 days**

Q.39)- A dishonest dealer professes to sell his goods at cost price but uses a false weight of 950 grams instead of 1 kilogram. His gain percentage is:

- 1. $7\frac{5}{19}\%$ 2. $4\frac{5}{19}\%$ 3. $5\frac{5}{19}\%$ 4. $6\frac{5}{19}\%$**

Q.40)- The value of $66 \div [34 - (32 \text{ of } 2 - 4) \div (4 \times 15)]$ is equal to:

- 1. 2 2. 3 3. 0 4. 1**

Q.41)- Two towns P and Q are 275 km apart. A motorcycle rider starts from P towards Q at 10:00 a.m. at the speed of 25 km/h. Another rider starts from Q towards P at 12 noon on the same day at the speed of 20 km/h. At what time will they cross each other?

- 1. 4:30 p.m. 2. 1:15 p.m. 3. 5:00 p.m. 4. 3:00 p.m.**

Q.42)- A person covers 11 km with a speed of 7 km/h, 25 km with a speed of 10 km/h and 30 km with a speed of 20 km/h. What is the average speed of the person?

- 1.** $11\frac{11}{13}$ km/h **2.** $11\frac{10}{13}$ km/h **3.** $11\frac{7}{13}$ km/h **4.** $11\frac{9}{13}$ km/h

Q.43)- If $x - y = 25$ and $xy = 444$, compute the value of $x^3 - y^3$.

- 1. 28,495 2. 42,985 3. 48,925 4. 26,725**

Q.44)- If the sides of a triangle are 7, 12 and x, and x is an integer, then find the number of possible values of x.

- 1. 12 2. 13 3. 15 4. 14**

The following table shows the total number of employees in 4 different colleges and the percentage of female employees and that of male employees. Study the table carefully and answer the question that follows.

College	Total Number of Employees	Percentage of Female Employees	Percentage of Male Employees
A	700	35%	65%
B	550	30%	70%
C	600	40%	60%
D	800	55%	45%

The number of females in colleges A and D together is what percentage of the

Q.45)- number of males in colleges B and C together (rounded off to two decimal places)?

- 1. 80.84% 2. 80.95% 3. 91.95% 4. 90.86%**

Q.46)- A certain sum of money is given at a certain rate of simple interest for 4 years. Had it been given at 11% higher rate for the same time, it would have fetched ₹1320 more. Find the sum (in ₹).

- 1. 3240 2. 4580 3. 3000 4. 2500**

Q.47)- If the radius of a sphere is increased by 125%, then by what percentage will its surface area increase (correct to two decimal places)?

- 1. 409.76% 2. 506.25% 3. 406.25% 4. 509.54%**

Q.48)- $(1 - \cos^2 A) \sec^2 A$ is equal to:

- 1. $\cos^2 A \cot^2 A$ 2. $\tan^2 A$ 3. $\operatorname{cosec}^2 A$ 4. $\cot^2 A$**

Q.49)- Study the given table and answer the question that follows.

The table shows the number of students in various courses in various cities A, B, C, D and E in India during the academic year 2022-2023.

In city A, the number of students in Medicine is nearly what percentage of MBA?

City	MBA	Science	Engineering	Medicine	MCA	Total
A	1200	2560	4520	1100	960	10340
B	1350	2650	5100	1050	850	11000
C	1250	2640	4580	1120	750	10340
D	1960	1250	3500	1850	1600	10160
E	1200	2100	3500	1960	1540	10300
Total	6960	11200	21200	7080	5700	



1. 87% 2. 89% 3. 85% 4. 92%

Q.50)- On the tag price, a seller offers a 10% discount and a cashback of ₹250. He still earns 10% profit. If the cost price is ₹1,200, then the tag price (rounded off to 2 decimal places) is ₹_____.

1. 1744.44 2. 1777.44 3. 1447.44 4. 1774.44

Answer key

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

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Quantitative Aptitude

Q.1)- If $\frac{a}{b} + \frac{b}{a} = 1$, $a \neq 0, b \neq 0$, then find the value of $\frac{a^3 + b^3}{3ab}$.

- 1. -3 2. 3 3. 0 4. 2**

Study the given table and answer the question that follows.

The table shows the yearly production (in thousands) of scooters in five different factories (P, Q, R, S and T) from 1985 to 1989.

Yearly production (in thousands) of scooters in different factories.

Factory	1985	1986	1987	1988	1989
P	20	15	24	13	17
Q	16	23	41	20	15
R	14	21	30	16	12
S	25	17	15	12	22
T	40	32	39	41	35
Total	115	108	149	102	101

In which year was the total production of scooters of all factories 20% of the total production of scooters from 1985 to 1989?

Q.2)-

- 1. 1989 2. 1986 3. 1988 4. 1985**

Q.3)- A train covers a distance of 72 km in 40 minutes. Travelling at the same speed, how many metres will the train cover in 6 seconds?

- 1. 210 2. 192 3. 174 4. 180**

Q.4)- Find the value of $\left[9 + 3 - 2 \times \left\{ \left(4 \div \frac{1}{4} \right) - 4 \right\} + 81 \div 9 + 81 \div 9 + 3 - 9 \right] + 9$.

- 1. 9 2. 6 3. 0 4. 3**

Q.5)- A travels for 8 hours at the rate of 4 km/h and for 4 hours at the rate of 8 km/h. The average speed of the journey (in km/h) is:

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



Q.6)- The cost of Compressed Natural Gas (CNG) per litre is increased by 65%. By what percentage must Manish reduce his consumption of CNG so as not to increase his expenditure? (correct up to two decimal places)

1. 39.39% 2. 25.39% 3. 30.13% 4. 45.13%

Q.7)- If $56 \div 4 + p \times 3 - 24 \div 12 + 4 = 21 \div 3 + 3$, then the value of p is:

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

Q.8)- If A, B and C are the interior angles of $\triangle ABC$, then what is the value of $\{\tan \frac{A}{2} + \operatorname{cosec} \frac{B+C}{2}\} \{\tan \frac{A}{2} - \operatorname{cosec} \frac{B+C}{2}\}$?

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

Q.9)- A trader sells pulses at a 32% profit and uses weights 20% less than the actual measure. Find his gain percentage.

1. 72% 2. 62% 3. 65% 4. 58%

Q.10)- A gear 15 cm in diameter is turning a gear 21 cm in diameter. When the smaller gear has 105 revolutions, how many has the larger one made?

1. 85 2. 90 3. 100 4. 75

Q.11)- The value of $\left(\frac{2\cos^3\theta - \cos\theta}{\sin\theta - 2\sin^3\theta} \right)^2 + 1$, $\theta \neq 45^\circ$ is:

1. $\sec^2\theta$ 2. $\cot^2\theta$ 3. $\operatorname{cosec}^2\theta$ 4. $\sin^2\theta$

Q.12)- If the number of school going children in a town is 64000 and it is increasing annually by 10%, then what will be the number of school going children in the town at the end of 3 years?

1. 85100 2. 85184 3. 80000 4. 85000

Q.13)- The simple interest on a certain sum for 4 years at 14% per annum is ₹6,160 less than the simple interest on the same sum at the same rate for 8 years. Find the sum.

1. ₹10,000 2. ₹12,000 3. ₹11,000 4. ₹9,000

The volume of a right circular cone is $150\pi \text{ cm}^3$ and its height is 18 cm. Find its slant height (in cm) (correct to 2 decimal places).

1. 18.68 2. 15.25 3. 28.68 4. 25.35

Q.15)- What is the ratio between S and T if S is 75% of T?

1. 75 : 1 2. 4 : 3 3. 2 : 3 4. 3 : 4

Simplify the following.

$$\frac{2 \left\{ 3 + 3 \left(\frac{1}{4} \div \frac{15}{20} + 2 \right) - 18 \times \frac{1}{3} \right\}}{2 (4 + 20 \div 4)}$$

Q.16)-

1. $\frac{11}{18}$ 2. $\frac{7}{18}$ 3. $\frac{5}{9}$ 4. $\frac{4}{9}$

Course Enquiry



Q.17)- Find the value of $\frac{3+3 \times 2 - 6 \div 3 + 7}{5 \div 5 \times 6 \div 6 + 3 + 3}$.

1. 1 2. $\frac{8}{7}$ 3. $\frac{6}{7}$ 4. 2

Q.18)- The value of $72 \div 8 - 210 \div 15 - 5 + 2 \times 5$ is:

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

Q.19)- A vessel contains 18 litres mixture of milk and water in the ratio 5 : 1. If 3 litres of milk is added to the vessel, then how much water (in litres) should be added to the vessel to have milk and water in the ratio 9 : 2?

1. 2 2. 1 3. 1.5 4. 0.5

In an election between P, R and S, $\frac{1}{10}$ of the total votes polled are invalid. Votes polled in favour of R and S are half of the total votes polled, and they get equal votes. Due to a fault in the machine, half of the votes of S and half of the invalid votes are counted additionally in favour of R. What is the overall percentage of

Q.20)- votes secured by R due to the fault?

1. 38.5% 2. 41.55% 3. 37.55% 4. 42.5%

Q.21)- Ashish covers 72 km at a speed of 45 km/h by bike, 28 km at a speed of 4 km/h by bicycle, and another 160 km at a speed of 20 km/h by car. Find his average speed (in km/h) for the whole journey. (Rounded off to two decimal places)

1. 25.25 2. 27.65 3. 28.33 4. 15.66

The curved surface area of a cone is 308 cm^2 , and its slant height is 28 cm. Find the radius of its base. (Use $\pi = \frac{22}{7}$)

Q.22)-

1. 2.5 cm 2. 2.8 cm 3. 3.5 cm 4. 3.0 cm

Let a be a positive number and $b = \frac{4}{a}$. What is the mean proportional of a and

Q.23)- b?

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

If the polynomial $(2x^3 + ax^2 + 3x - 5)$ and $(x^3 + x^2 - 2x + a)$ leave the same remainder when divided by $(x - 2)$, find the remainder.

Q.24)-

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

Q.25)- The area of the canvas cloth needed to erect a right conical tent of height 20ft. and circular base of circumference 30π ft. is:

1. $375\pi \text{ sq.ft.}$ 2. $455\pi \text{ sq.ft.}$ 3. $470\pi \text{ sq.ft.}$ 4. $589\pi \text{ sq.ft.}$



Q.26)-

Study the following table chart carefully and answer the question that follows.

The table given below shows the number of registered voters and the percentage of the people who voted among them in different voting centres.

Centres	Total number of Registered Voters	Percentage of people who voted
Centre 1	26000	70%
Centre 2	28000	60%
Centre 3	25000	80%
Centre 4	30000	76%

According to the table given above, which centre has the maximum number of voting?

- 1. Centre 1 2. Centre 2 3. Centre 4 4. Centre 3**

Q.27)- Simplify the following expression. $(4.2 \text{ of } 2.5 \div 3.5) - (3.6 \div 2.4 + 2.5 \text{ of } 3 \div 7.5) + (6 - 3 \text{ of } 2 + 4 \text{ of } 3 \div 6)$

- 1. 1.5 2. 3.5 3. 2.5 4. 4.5**

A school has four sections A, B, C, D of class X students. The results of half yearly and annual examinations are shown in the table given below:

Result	Number of students			
	Section A	Section B	Section C	Section D
Students failed in both exams	25	22	18	20
Students failed in half yearly but passed in Annual exam	20	25	24	12
Students passed in half yearly but failed in Annual exam	12	15	8	10
Students passed in both exams	15	20	22	18

Q.28)- How many students are there in class X in the school?

- 1. 206 2. 226 3. 256 4. 286**

Q.29)- The table below shows employees of a company in 5 different towns over the period of 5 years.

Note: All figures are fictitious.

Employees from Pune in 2018 are what per cent of the total employees of all towns together in that year?

Year	Town				
	Hyderabad	Punjab	Pune	Kolkata	Delhi
2016	520	325	152	425	545
2017	680	475	250	765	645
2018	874	850	179	857	820
2019	745	780	375	856	765
2020	954	822	425	880	923

- 1. 3% 2. 4% 3. 5% 4. 6%**

Course Enquiry



Consider the data of a certain number of activities of type P, Q, and R in the percentage of the total activities of the cities B, C, D, and K in the table below.

Activity ↓	City →	B	C	D	K
P		45	30	25	35
Q		25	30	35	30
R		30	40	40	35

If the total activities of B and C are 500 and 400, respectively, then what is the difference in activity R of B and C?

Q.30)-

- 1. 10 2. 15 3. 30 4. 20**

Q.31)- Simplify.

$$22.0625 - [15 + 0.25 \times (4.78 - 1.5 \times 3.02)]$$

- 1. 7.1 2. 7.3 3. 7.2 4. 7.0**

Q.32)- The sum of any two sides of a triangle is:

- 1. less than or equal to third side**
- 2. equal to third side 3. greater than the third side**
- 4. less than the third side**

Q.33)- If $x = 11$, then the value of $(x^5 - 12x^4 + 12x^3 - 12x^2 + 12x - 1)$ is:

- 1. 9 2. 10 3. 14 4. 8**

Q.34)- A shopkeeper kept the marked price of an item at ₹500. He sold it at a scheme discount of 10% and 20% and got a profit of 25%. What was the cost price of the item?

- 1. ₹188 2. ₹288 3. ₹482 4. ₹384**

Simplify

$$13.5 - [5 + 0.5 \times (9 - 3 \times 2)]$$

- 1. 7 2. 6 3. 8 4. 5**

Q.36)- The distance between the parallel sides of a trapezium is 18 cm. If the area of the trapezium is 1188 cm², then what is the sum of the lengths of the parallel sides?

- 1. 150 cm 2. 132 cm 3. 115 cm 4. 126 cm**

Q.37)- If $\sin(x+y) = 1$ and $\cos(x-y) = \frac{\sqrt{3}}{2}$, find the value of 'y'.

- 1. 20° 2. 30° 3. 90° 4. 60°**

Q.38)- A vegetable vendor bought 100 kg of potatoes at the rate of ₹19 per kg and spent ₹100 as cartage. He sold 60 kg of potatoes with a 50% profit and half of the remaining stock with a 40% profit.



He sold half of the still remaining potatoes with a 25% profit. What profit percentage should he aim for when selling the ultimate remaining potatoes to achieve an overall profit of 42%?

- 1. 0.1 2. 0.15 3. 0.16 4. 0.12**

The percentage of marks obtained by six students in five different subjects in an examination and the maximum marks in each subject (in parenthesis) are given in the following table.

Student	Hindi (150)	English (100)	Geography (175)	Mathematics (120)	Physics (75)
P	85	56	65	82	90
Q	76	84	52	84	76
R	89	98	67	60	56
S	82	64	56	70	80
T	58	68	78	68	71
U	64	75	94	64	60

Q.39)- What was the aggregate of marks obtained by S in all the five subjects?

- 1. 356 2. 405 3. 429 4. 324**

Q.40)- The marked price of a table is ₹5,980. If the shopkeeper offers a discount of 18%, what is its selling price (in ₹, to the nearest rupee)?

- 1. 4,490 2. 4,940 3. 4,094 4. 4,904**

Simplify

$$\frac{\sin^3 A + \cos^3 A}{\sin A + \cos A}$$

Q.41)-

- 1. $1 - \sin A \tan A$ 2. $1 - \tan A \sec A$ 3. $1 - \sin A \cos A$ 4. $1 - \cos A \cot A$**

Q.42)- Arrange the following ratios in ascending order.

3 : 4, 3 : 5, 2 : 11, 7 : 2

- 1. $7 : 2 < 3 : 4 < 3 : 5 < 2 : 11$
 2. $3 : 4 < 3 : 5 < 2 : 11 < 7 : 2$
 3. $3 : 5 < 2 : 11 < 3 : 4 < 7 : 2$
 4. $2 : 11 < 3 : 5 < 3 : 4 < 7 : 2$**

Q.43)- Tarun is twice as good as Tripti in doing a work. Together, they can complete the work in 16 days. In how many days can Tripti alone complete the same work?

- 1. 24 2. 25 3. 50 4. 48**

Q.44)- Find the perimeter of a triangle with sides equal to 13 cm, 12 cm and 5 cm.

- 1. 5 cm 2. 25 cm 3. 30 cm 4. 15 cm**

Q.45)- P can do a piece of work in 30 days and Q in 40 days. They work together for 4 days and then Q leaves. The number of days taken by P to finish the remaining work is:

- 1. 7 days 2. 30 days 3. 23 days 4. 28 days**

The following table shows the number of new employees added to different categories of employees in a university and also the number of employees from these categories who left the university every year:

	Professor		Assistant Professor		Associate Professor		Peon	
	New	Left	New	Left	New	Left	New	Left
2018	80	-	100	-	90	-	60	-
2019	100	60	150	40	110	30	80	10
2020	150	40	160	30	140	40	70	20
2021	180	60	200	50	190	50	80	30
2022	200	80	220	60	220	60	90	40

What is the difference between the total number of professors added to the university and the total number of associate professors added to the university during the years 2019 to 2022?

Q.46)-

- 1. 30 2. 40 3. 50 4. 120**

Q.47)- Three circles each of radius 5 cm touch one another. The area (in cm^2) subtended between them is:

- 1. $25\left(2\sqrt{3}-\frac{\pi}{2}\right)$ 2. $25\left(\sqrt{3}-\frac{\pi}{2}\right)$ 3. $50\left(\sqrt{3}-\frac{\pi}{2}\right)$ 4. $25\left(\sqrt{3}+\frac{\pi}{2}\right)$**

$$\frac{13 \div [6 - 6 \div (7 - 9) \times 8 + 9]}{5 + 5 \times 5 \div 5 \text{ of } 5}$$

Q.48)- Simplify the given expression.

- 1. $\frac{1}{18}$ 2. $\frac{1}{2}$ 3. 39 4. 1^{13}**

Q.49)- Two trains are moving in the same direction at 60 km/h and 42 km/h. The faster train crosses a man in the slower train in 36 seconds. Find the length of the faster train.

- 1. 195 m 2. 180 m 3. 175 m 4. 185 m**

A solid metal cylinder of 12 cm height and 7 cm radius is melted and recast into two cones in the proportion of 1 : 2 (volume), keeping the height 12 cm. What would be the percentage

Q.50)- change in the flat surface area before and after [use $\pi=\frac{22}{7}$]?

- 1. 45% 2. 50% 3. 20% 4. 35%**

Answer key

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





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By: Shubham Jain
(Selected as GST Inspector)
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29/06/2024-> (9:00 AM - 11:00 AM)

Quantitative Aptitude

Q.1)- Find the curved surface area (in cm^2) of a cone of radius 3 cm and height 4 cm.

- 1. 14π 2. 15π 3. 7π 4. 12π**

Simplify

$$\text{Q.2)- } \left(\frac{3}{4} + \frac{5}{4}\right) \times \left(\frac{9}{5} - \frac{4}{5}\right) \div \left(\frac{3}{2} + \frac{1}{2}\right).$$

- 1. -2 2. 2 3. -1 4. 1**

Q.3)- 42% of Ranita's weekly income is equal to 56% of Bhaskar's weekly income. If Bhaskar's weekly income was raised by ₹ 200, while Ranita's weekly income did not change, the ratio of the weekly incomes of Ranita and Bhaskar, respectively, would have been 5 : 4. What is Ranita's weekly income (in ₹)?

- 1. 3600 2. 4000 3. 4200 4. 3000**

Q.4)- If $m \times 7 + 4 - 6 \div 3 - 7 + 45 \div 5 \times 4 + 49 = 87$, then the value of m is:

- 1. 0 2. 7 3. 14 4. 1**

Q.5)- The difference between the two perpendicular sides of a right-angled triangle is 2 cm and its area is 24 cm^2 . What is the perimeter (in cm) of the triangle?

- 1. 18 2. 14 3. 24 4. 16**

The cost price of two articles is equal. One article is sold at a profit of 12% and the other article for ₹3,600 more than the first. If the net profit is $15\frac{27}{51}\%$, then what is the cost price of each article?

Q.6)-

- 1. ₹50,000 2. ₹51,000 3. ₹52,150 4. ₹50,990**

Q.7)- The following table shows the yearly production of bags (in thousands) by different companies. The total production of company A over the given years is what percentage of the total production of

Company	2012	2013	2014	2015
A	29	37	38	42
B	30	38	40	39
C	35	30	45	43
D	37	35	42	45

company D over the given years?

- 1. 89.21% 2. 82.91% 3. 98.21% 4. 91.82%**

Q.8)- A part of ₹48,500 is invested at a simple interest of 15% per annum. The rest of the money is invested at the rate of 10% simple interest per annum after 2 years of the first investment. The ratio



of interest after 5 years from the time when the first amount was invested is 5 : 3. How much is the second part that was invested (in ₹) at the rate of 10% simple interest?

1. 20,940 2. 29,100 3. 24,900 4. 19,400

Q.9)- A boat can travel 16.9 km downstream in 52 min. If the speed of the current is 3 km/h, then how much time (in hours) will the boat take to travel 84 km upstream?

1. 7.5 2. 13.5 3. 6 4. 6.22

Q.10)- A trader sells an article at 16% below its cost price. Had he sold it for ₹192.20 more, he would have gained 15%. The new selling price (in ₹) of the article is:

1. 731 2. 713 3. 724 4. 742

Q.11)- Simplify the following.

$$72 \div 8 \times 4 + 40 - 35 \div 5 + 15$$

1. 24 2. 9 3. 84 4. 48

Q.12)- In a school, the total number of boys is 20% more than the total number of girls. What is the ratio of the number of boys to that of girls in the school?

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

Q.13)- If $\sin^4\theta + \cos^4\theta = 2\sin^2\theta\cos^2\theta$, $0^\circ < \theta < 90^\circ$, then find the value of $\cot\theta$.

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

Q.14)- The breadth of a room is twice its height and half its length. The volume of the room is 1728 m³. The length of the room is:

1. 24 m 2. 20 m 3. 34 m 4. 28 m

Q.15)- The distance between the centres of the two circles, with radii 3 cm and 2 cm, respectively, is 13 cm. The length (in cm) of a transverse common tangent is:

1. 18 cm 2. 9 cm 3. 16 cm 4. 12 cm

Q.16)- A school has two rectangular playgrounds, which are similar in shape. If the length and the breadth of the first playground are given as 224 m and 160 m, respectively, then which of the following options CANNOT be the dimensions of the second playground?

1. Length = 210 m; Breadth = 150 m
2. Length = 343 m; Breadth = 255 m
3. Length = 168 m; Breadth = 120 m
4. Length = 273 m; Breadth = 195 m

Q.17)- If $a + b + c = 15$ and $ab + bc + ca = 35$, then find the value of $a^3 + b^3 + c^3 - 3abc$.

1. 1800 2. 1500 3. 1200 4. 2100

Simplify the given expression.

$$\frac{\left(2\frac{1}{7} + 6\frac{1}{7}\right) \div \frac{9}{7}}{1\frac{1}{9} \div \left\{\frac{7}{9} + \left(\frac{4}{9} \div \frac{4}{3}\right)\right\}}$$

Q.18)-

1. $\frac{53}{9}$ 2. $\frac{56}{9}$ 3. $\frac{58}{9}$ 4. $\frac{55}{9}$

Q.19)- Amita can build a room in the same amount of time that Bina and Sita working together can build. If Amita and Bina together could do it in 25 days and Sita alone in 35 days, then how many days are required for Bina alone to do the same work?

1. 165 Days 2. 152 Days 3. 180 Days 4. 175 Days

The value of $\left(2\frac{1}{2} + 1\frac{3}{4} - \frac{1}{6}\right) \times 16 \div 49$ is:

Q.20)-

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

Q.21)- In a 100-km journey, the average speed of S is 40 km/h. He covers the first 60 km in 40 minutes and the next 20 km in 50 minutes. What is his speed in the last 20 km (in km/h)?

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

Q.22)- What must be added to $(x^3 - 3x^2 + 4x - 75)$ to obtain a polynomial that is exactly divisible by $(x - 5)$?

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

Q.23)- A woman working in a company was supplied a rectangular solid (cuboid shape) of wax with dimensions 70 cm, 44 cm and 20 cm to prepare cylindrical candles, each 14 cm in diameter and 20 cm of height. Find the number of candles.

1. 20 2. 30 3. 10 4. 15

Q.24)- If two kinds of rice which cost ₹25 a kg and ₹40 a kg are mixed in the ratio of 3 : 2, then find the cost of the mixture per kg.

1. ₹31 2. ₹32 3. ₹33 4. ₹30

Q.25)- A 320 m long train completely crosses a 240 m long train, coming from the opposite direction, in y seconds. If the first train is travelling at the speed of 44 km/h and the second train is travelling at 56.8 km/h, then what is the value of y?

1. 20 2. 21 3. 18 4. 22

Q.26)- Find the value of the following expression. $2 \times 8 \div 4 - 5 \text{ of } 3 + 6 \div 3 \times 2 - 6 \text{ of } 3 + 5$

1. 20 2. -20 3. 15 4. -15

Simplify:

Q.27)- $\left[\left(7\frac{1}{4} \right)^2 - \left(5\frac{4}{5} \right)^2 \right] \div 5\frac{4}{5} \times \frac{16}{9}$

- 1. 3.1 2. 9.3 3. 5.8 4. 7.4**

Q.28)- The following table shows the marks obtained out of 100, by four students in four different subjects.

The total marks scored by Ronak in all the subjects is what percentage of the total marks scored by

Students	Hindi	Maths	Science	Social
Arnav	83	87	90	92
Ronak	75	89	79	82
Shivam	88	95	90	87
Sonu	92	85	90	88

Shivam, Sonu, Arnav together in all the subjects?

- 1. 40.63% 2. 44.46% 3. 34.63% 4. 30.46%**

Q.29)- Simplify the given expression. $4 \times 5 \div 4 \text{ of } 5 \times 4 \div (6 + 6 \times 6 \div 6 \text{ of } 6 - 6 \div 6 \times 6)$

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

Q.30)- Study the given table and answer the question that follows.

The table shows the number of students studying in 6 different classes of 6 different schools.

The number of students studying in class VII from school U forms approximately what percentage of the total number of students from all the classes together from that school?

School	V	VI	VII	VIII	IX	X
P	152	160	145	156	147	144
Q	148	166	150	155	157	143
R	161	152	140	145	143	165
S	159	142	149	140	142	168
T	147	144	158	163	154	150
U	150	160	162	160	161	140
Total	917	924	904	919	904	910

- 1. 21% 2. 19% 3. 17% 4. 15%**

Q.31)- A shopkeeper offers a discount of 24 % on the marked price. On a special sale day, he offers an extra 30% off coupon after the first discount. If the article was sold for ₹ 7 comma 700.70 comma what is the marked price left parenthesis in ₹ right parenthesis of the article ?

- 1. 14745 2. 14475 3. 17745 4. 17475**

Q.32)- The value of $(\cosec\theta - \sin\theta)(\sec\theta - \cos\theta)(\tan\theta + \cot\theta)$ is:

- 1. -3 2. $\sec\theta\cosec\theta$ 3. 1 4. 3**

Q.33)- A shopkeeper wanted to sell ₹2,000 worth of products. But he had two options, giving three successive discounts of 10% each or giving a single discount of 28%. What was the difference between the two options of discounts (in rupees)?

- 1. 28 2. 18 3. 22 4. 16**

Q.34)- Two trains, 140 m and 120 m in length, are running in the same direction at the speed of 60 km/h and 78 km/h, respectively. In how much time will they completely cross each other?



- 1. 65 seconds 2. 58 seconds 3. 48 seconds 4. 52 seconds**

Q.35)- A is 25% more than B and B is 30% less than C. If C is 20% more than D, then by what percentage is A more than D?

- 1. 3% 2. 2% 3. 5% 4. 6%**

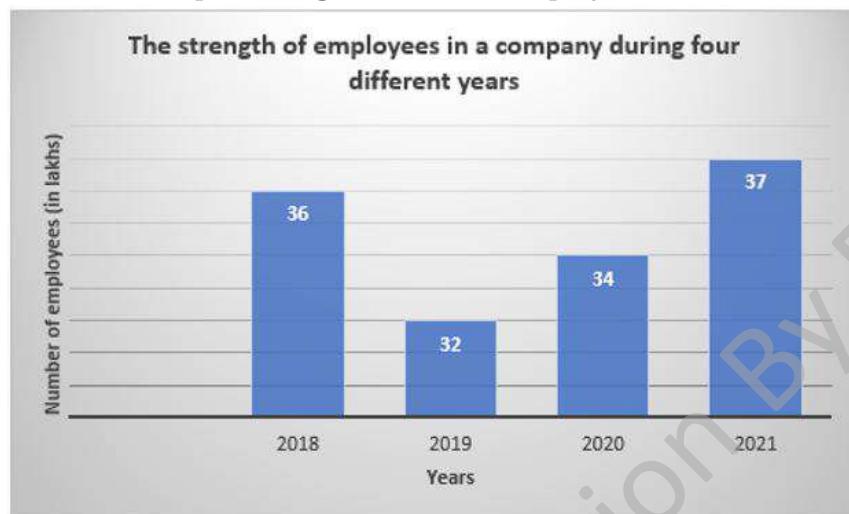
Simplify the given expression.

Q.36)-
$$\left(7.2 \times 4.1 \div 12.3 + 22.5 \text{ of } \frac{1}{25} - \frac{1}{10} \right)$$

- 1. 7.4 2. 9.6 3. 3.2 4. 4.9**

Q.37)- The given bar graph shows the strength of employees (in lakhs) of a company during four different years.

What was the percentage increase in employees in 2020 over 2019?



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

Q.38)- Akash and Vikash can complete a work in 40 days and 60 days, respectively. In how many days will the entire work be completed if they work on alternate days, starting with Akash?

- 1. 42 2. 52 3. 50 4. 48**

Q.39)- Solve the following: $(\tan\theta + \sec\theta + 1)(\cot\theta - \operatorname{cosec}\theta + 1) = ?$

- 1. 0 2. 2 3. -1 4. 1**

Q.40)- The following table shows the marks of a student in 5 tests in the subjects Maths, Physics, and Chemistry (out of 100 for each subject). Study the table and answer the question that follows.

The ratio of the average marks obtained by the student in test 2 to the average marks he got in Maths in all tests, is:

Tests	Maths	Physics	Chemistry
1	80	69	91
2	94	79	85
3	88	81	95
4	92	76	90
5	96	90	84

- 1. 43:45 2. 21:25 3. 4:3 4. 4:7**

Study the given table and answer the question that follows.

Percentage of marks obtained by 5 students in different subjects

Subjects →	History 250	Maths 200	Economics 250	Hindi 150	English 150
Students↓					
Vikas	60	80	90	60	95
Shyam	90	70	80	70	40
Sohan	70	90	95	80	75
Mohan	80	60	70	95	80
Mohit	90	50	85	85	80

The marks obtained by Sohan in maths are _____ than that obtained by Shyam in maths.

Q.41)-

- 1. 40 more
- 2. 30 less
- 3. 40 less
- 4. 30 more

In the following table, the achievement of 10 boys and 10 girls in Math has been given. Study the table and select the correct statement.

Boys	Girls
56	35
75	88
34	95
49	99
89	67
99	82
94	97
59	63
82	79
79	81

Q.42)-

- 1. The average achievement of the girls is more than that of the boys.
- 2. The average achievement of the boys and girls is same.
- 3. The given data is insufficient to draw any meaningful conclusion.
- 4. The average achievement of the boys is more than that of the girls.

Q.43)- A cone of slant height 4.2 units has a lateral surface area 13.2 units^2 . The radius of the base is:

- 1. 1.5 units
- 2. 2.5 units
- 3. 1 unit
- 4. 2 units

Q.44)- $\tan^4 A + \tan^2 A$ is equal to:

- 1. $\sec^4 A + \sec^2 A$
- 2. $\sec^2 A - \sec^4 A$
- 3. $\sec^4 A - \sec^2 A$
- 4. $-(\sec^2 A + \sec^4 A)$

The height and radius of a cone-shaped storage tank are 9 ft. and 7 ft.,

Q.45)- respectively. Find the volume of water the tank can hold? (Use $\pi = \frac{22}{7}$)

- 1. 1386 cubic ft.
- 2. 462 cubic ft.
- 3. 527 cubic ft.
- 4. 1423 cubic ft.

Q.46)- In triangle ABC, AB = AC and $\angle A = 70^\circ$. Find the value of $\angle C$.

- 1. 55°
- 2. 45°
- 3. 65°
- 4. 75°

Q.47)- If one angle of triangle PQR is greater than the sum of the other two, the triangle PQR will be:



- 1. equilateral 2. acute angle 3. right angle 4. obtuse angle**

Q.48)- Determine the value of the product $(4a + 3b)(16a^2 - 12ab + 9b^2)$ for $a = 2$ and $b = 3$.

- 1. 1131 2. 1141 3. 1231 4. 1241**

Q.49)- Sita takes a loan of Rs.35,000 at an interest rate of 10% compound interest, compounded annually. She agrees to pay two equal instalments in 2 years, one instalment at the end of each year. Find the value of each instalment.(Round off to the nearest integer)

- 1. ₹20,167 2. ₹40,167 3. ₹10,167 4. ₹30,167**

Q.50)- Two successive price increases of 25% and 25% of an article are equivalent to a single price increase of:

- 1. 50.25% 2. 52.25% 3. 56.25% 4. 48.50%**

Answer key

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

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29/06/2024-> (12:30 PM - 2:30 PM)

Quantitative Aptitude

Q.1)- The breadth of a rectangular lawn is decreased by 8% and its length is increased by 15%. Find the percentage change in the lawn area.

- 1. 5.8% decrease 2. 5.8% increase 3. 8.5% increase 4. 8.5% decrease**

Q.2)- Simplify $\frac{\tan 71^\circ + \tan 19^\circ}{1 - \tan 71^\circ \tan 19^\circ}$.

- 1. 1 2. Not defined 3. $\sqrt{3}$ 4. 0**

Q.3)- Swati earns a sum of ₹40,000, out of which she saves 25%. She spends the remaining amount on food and education in the ratio of 3 : 2. What is the percentage of expenditure incurred on education to her total income?

- 1. 30% 2. 20% 3. 40% 4. 60%**

Q.4)- A 234 m long train passes a person running at 9 km/h in the opposite direction, in 6 seconds. In how much time (in seconds) will it pass another person who is moving at 23.4 km/h, in the same direction?

- 1. 7.2 2. 7.8 3. 8 4. 8.4**

Q.5)- The following table gives the number of males, females, educated males and educated females in a village over the years 2016 - 2020. Study the table carefully and answer the question.

Find the percentage of the total number of educated females to the total number of females over all

Year / No.	2016	2017	2018	2019	2020
Males	1050	1200	1250	1300	1400
Females	900	1000	1020	1100	1200
Educated males	850	1000	1100	1150	1200
Educated females	600	820	950	980	1000

the years (up to 2 decimal places).

- 1. 0.8623 2. 0.8333 3. 0.9233 4. 0.8923**

Q.6)- If $\frac{5x+3y}{5x-3y} = \frac{7}{3}$, then find $x : y$.

- 1. 3 : 5 2. 3 : 2 3. 2 : 3 4. 5 : 3**

Q.7)- Simplify $63 - [15 + \{17 - (9 - 7 + 1)\}]$.



1. 34 2. 40 3. 30 4. 44

Q.8)- A person bought two buffaloes for ₹11,520. One is sold at a loss of 15% and the other is sold at a gain of 19%. If the selling price of both buffaloes is equal, find the cost price of the first one.

1. ₹6,700 2. ₹6,710 3. ₹6,720 4. ₹6,715

The in-radius of a triangle is 8 cm, and the sum of the lengths of

Q.9)- its sides is 125 cm. The area of the triangle (in cm^2) is

1. 480 2. 500 3. 1000 4. 250

Q.10)- The secant CD intersects the circle at E and CF is tangent to the circle at F. If the length of the secant CD is equal to 20 cm and the length of tangent CF is 15 cm, find the length of the chord DE.

1. 11.25 cm 2. 3.75 cm 3. 8.75 cm 4. 9.25 cm

Q.11)- The value of $(12 + 18) \div 2 - 11 + 16 \times 4 - 28 + 13(-18 + 15)$ is:

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

Q.12)- A drink is made by mixing water and juice in the ratio 9 : 7. If x litres of water and 2x litres of juice are mixed in 160 litres of drink, then the new ratio becomes 13 : 15. The quantity of drink (in litres) is:

1. 240 2. 280 3. 300 4. 260

The following table shows the shares traded on Mumbai, Rajasthan, Uttar Pradesh and Uttarakhand stock exchanges:

Name of the company	Mumbai		Uttarakhand		Rajasthan		Uttar Pradesh	
	High	Low	High	Low	High	Low	High	Low
Aata tea	540	395	450	4255	320	510	440	310
Kolgate	34	57	60	42	25	60	20	70
Jmbuja cement	150	155	120	125	160	135	145	170

Q.13)- For Jmbuja cement, the ratio of the high rate of share to the low rate is maximum in the stock exchange at:

1. Uttar Pradesh 2. Mumbai 3. Uttarakhand 4. Rajasthan

Q.14)- The marked price of an immersion rod in an electronic store is ₹900. The store offers a discount of 12% on its sale. At what price (in ₹) can a customer buy it from the electronic store?

1. 787 2. 792 3. 782 4. 797

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Study the given table and answer the question that follows.

The table shows the production of five different types of cars by a company from 1989 to 1994.

Year → Type ↓	1989	1990	1991	1992	1993	1994	Total
P	8	20	16	17	21	6	88
Q	16	10	14	12	12	14	78
R	21	17	16	15	13	8	90
S	4	6	10	16	20	31	87
T	25	18	19	30	14	27	133
Total	74	71	75	90	80	86	476

Which type of car constituted 25% of the total production of all types of cars in

Q.15)-

- 1. R 2. S 3. P 4. Q**

Q.16)- Find the volume (in cm^3) of a hemisphere of radius 18 cm. (Use $\pi = \frac{22}{7}$) (Rounded off to two decimal places)

- 1. 12200.43 2. 11250.25 3. 12219.43 4. 18750.23**

Study the given table and answer the question that follows.

The table shows the number of voters at three different centres A, B, C.

Centre	Total number of registered voters	Percentage of people who voted (Out of the total number of registered voters)
A	4600	78
B	5400	70
C	6500	85

Number of people who did not vote at centre B is what percentage more than those who did not vote at centre C?

Q.17)-

- 1. $66\frac{1}{13}\%$ 2. $66\frac{2}{13}\%$ 3. $66\frac{5}{13}\%$ 4. $66\frac{3}{13}\%$**

Study the given table and answer the question that follows.

The table shows the yearly production (in thousands) of scooters in five different factories (P, Q, R, S and T) from 1985 to 1989.

Yearly production (in thousands) of scooters in different factories.

Factory	1985	1986	1987	1988	1989
P	20	15	24	13	17
Q	16	23	41	20	15
R	14	21	30	16	12
S	25	17	15	12	22
T	40	32	39	41	35
Total	115	108	149	102	101

The ratio of the production of scooters by factory P to that by factory T in 1985 is:

Q.18)-

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

The following table shows the Gross Turnover (in Crores) of a company over five years:

Year	Gross Turnover
2015	13
2016	20
2017	15
2018	23
2019	25

The Gross Turnover for 2017 is what per cent of the Gross

Q.19)- Turnover for 2019?

- 1. 60 2. 6 3. 0.06 4. 16**

If $a + b + c = 13$ and $ab + bc + ca = 22$, then the value of $a^3 + b^3 + c^3 - 3abc$

Q.20)- is ____.

- 1. 1911 2. 1625 3. 1339 4. 1225**

The value of $\frac{7 + 8 \times 8 \div 8 \text{ of } 8 + 8 \div 8 \times 5}{4 \div 4 \text{ of } 4 + 4 \times 4 \div 4 - 4 \div 4}$ is::

Q.21)-

- 1. 4 2. 1 3. 2 4. 3**

The value of $\frac{(275 \times 275 \times 275 + 725 \times 725 \times 725)}{(275 \times 275 + 725 \times 725 - 725 \times 275)}$ is:

- 1. -45000 2. 450000 3. 45000 4. -450000**

Q.23)- The speed of a boat when travelling downstream is 33 km/h, whereas when travelling upstream it is 27 km/h. What is the speed of the boat in still water?

- 1. 60 km/h 2. 30 km/h 3. 12 km/h 4. 6 km/h**

If $x + \frac{1}{1 + \frac{1}{x + \frac{1}{2}}} = 1$, then the value of x is equal to:

Q.24)-

- 1. $\frac{3}{7}$ 2. $\frac{2}{9}$ 3. $\frac{1}{7}$ 4. $\frac{7}{9}$**

Q.25)- If $\sin(x+y) = \cos\{3(x+y)\}$, then, the value of $\cot\{2(x+y)\}$ is _____.

- 1. -2 2. 1 3. -1 4. 2**

Q.26)- Sapna is double efficient as compared to Rakesh. If they both work together on a project and complete it in 48 days, then the number of days in which Sapna alone can complete the project is:

- 1. 72 2. 69 $\frac{1}{2}$ 3. 52 4. 68**

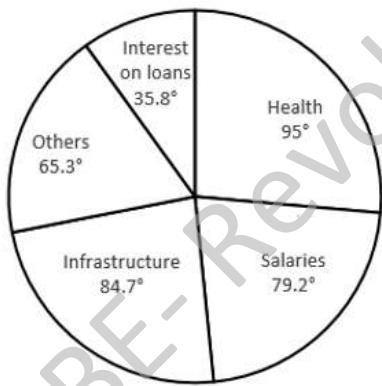
Q.27)- What is the area of the sector of a circle whose radius is 35 cm and whose arc subtends an

angle of 72° at the centre of the circle? $(\pi = \frac{22}{7})$

- 1. 770 cm^2 2. 970 cm^2 3. 810 cm^2 4. 610 cm^2**

Study the given pie-graph and answer the question that follows.

In a certain company, allocations to various sectors of the yearly budget per ₹7,200 crores are represented by this pie-diagram.



Q.28)- The expenditure (in ₹) on Infrastructure is:

- 1. ₹1,649 crores 2. ₹1,694 crores 3. ₹6,089 crores 4. ₹6,098 crores**

Q.29)- The height of a cylinder is 8 cm, and its area of the base is 20 cm^2 . Find its volume?

- 1. 80 cm^3 2. 160 cm^3 3. 180 cm^3 4. 100 cm^3**

Q.30)- The value of $264 \div 8 - 1 - 32 \times 2 + 80 \div 5 \times 40 \div 20$ is:

- 1. 3 2. 1 3. 0 4. 2**

Q.31)- The total percentage change in the volume of a cuboid if its length and breadth are decreased by 15% and 25%, respectively, while its height is increased by 60% is:

- 1. 2% increase 2. 5% decrease 3. 2% decrease 4. 5% increase**

Q.32)- A hostel had food provision for 300 students for a month. After 20 days, 50 students left the hostel. How long would the remaining food last? (1 month = 30 days)

- 1. 16 days 2. 12 days 3. 10 days 4. 14 days**

Q.33)- If $x^2 + 4y^2 + 2x + 1 = 0$, then find the value of $x^{39} + y^{36}$.

- 1. -2 2. -1 3. 2 4. 1**

Q.34)- The distance between two stations A and B is 800 km. A train covers the journey from A to B at a speed of 90 km/h and returns to A with a uniform speed of 65 km/h. Find the average speed of train during the whole journey (in km/h)?

- 1. 82.36 2. 80.50 3. 75.48 4. 70.45**

Q.35)- A trader gives a 40% discount on his goods. Further, he gives 20% discount on the goods. Find the single discount equivalent to these two successive discounts.

- 1. 60% 2. 50% 3. 30% 4. 52%**

Find the value of the following expression.

Q.36)- $(1 + \tan \theta + \sec \theta) \times (1 + \cot \theta - \operatorname{cosec} \theta)$

- 1. $\cos \theta \sin \theta$ 2. $\tan \theta$ 3. $\frac{1}{2}$ 4. $\frac{2}{3}$**

Q.37)- Rajan and Rajat can do a work in 64 days and 48 days, respectively. Starting with Rajat, they work on alternate days. In how many days will the work be completed?

- 1. $54\frac{3}{4}$ 2. 55 3. $55\frac{3}{4}$ 4. 54**

Q.38)- A man rows 48 km and back in 48 hours. He can row 4 km with the stream in the same time as 3 km against the stream. The speed of the stream (in km/h) is:

- 1. $\frac{5}{21}$ 2. $\frac{7}{21}$ 3. $\frac{7}{24}$ 4. $\frac{3}{29}$**

Q.39)- A dishonest dealer sells an article at a 10% loss on the cost price but uses a weight of 40 g instead of 50 g. What is his percentage of profit?

- 1. 11.5% 2. 12.5% 3. 10.0% 4. 18.4%**

$$\frac{1}{2^2} + \frac{1}{2^3} \div \left(\frac{1}{2} + \frac{1}{2} \div 1 \right) + 3\frac{1}{3} \div \frac{5}{2} \times \frac{3}{4} \div 6\frac{2}{3} \times \frac{7}{6} \text{ is:}$$

Q.40)- The value of

- 1. $\frac{21}{20}$ 2. $\frac{11}{20}$ 3. $\frac{11}{30}$ 4. $\frac{7}{40}$**

Q.41)- The population of a town increases annually by 20%. If the present population is 80 lakh, then what is the difference between the population three years ago and 2 years ago?

- 1. 85592.6 2. 75592.6 3. 925925.93 4. 65592.6**

Q.42)- Taking any three of the line segments out of segments of length 2 cm, 5 cm, 7 cm and 8 cm, the number of triangles that can be formed is:

- 1. 3 2. 1 3. 2 4. 4**

Q.43)- If the simple interest on a certain sum of money for 20 months at the rate of 19.2% per annum exceeds the simple interest on the same sum for 15 months at the rate of 11.2% p.a. by ₹2,920, then what is the sum (in ₹, to the nearest hundreds)?

- 1. 16,200 2. 16,660 3. 16,620 4. 12,660**

Q.44)- Find the surface area (in m²) of a cuboid that is 11 m long, 7 m broad and 4 m high.

- 1. 249 2. 289 3. 298 4. 320**

Q.45)- The area of a triangle is 486 cm² and its sides are in the ratio 3:4:5. The perimeter of the triangle is:

- 1. 108 cm 2. 218 cm 3. 105 cm 4. 308 cm**

Simplify:

Q.46)- $27 \div 4 \text{ of } 6 \times [16 \div 8 \times (12 - 8)] - (14 \div 7 \times 28)$

- 1. 62 2. - 51 3. 27 4. - 47**

Q.47)- Melting a metal ball of radius 3 units, 27 identical dice and a ball of radius 1 units are made. What is the side of dice?

- 1. 1.5 units 2. 1.6 units 3. 1.7 units 4. 1.4 units**

Q.48)- 18 students of a class took part in a quiz. If the number of girls is 8 more than the number of boys, find the product of the number of boys and girls.

- 1. 36 2. 65 3. 56 4. 63**

Q.49)- The value of $\frac{2\cos 15^\circ \sin 15^\circ}{\cos^2 15^\circ - \sin^2 15^\circ}$ is:

- 1. $\frac{\sqrt{5}-1}{\sqrt{5}+1}$ 2. $\sqrt{3}$ 3. $\frac{1}{\sqrt{3}}$ 4. ∞**

Q.50)- Simplify the given expression. $12.3 - [7 + 0.8 \text{ of } (5.6 - 3.8 \times 1.03)]$

- 1. 7.8539 2. 5.2314 3. 3.9512 4. 1.2368**

Answer key

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



Q.16	3	Q.17	2	Q.18	2	Q.19	1	Q.20	3
Q.21	1	Q.22	4	Q.23	2	Q.24	2	Q.25	2
Q.26	1	Q.27	1	Q.28	2	Q.29	2	Q.30	3
Q.31	1	Q.32	2	Q.33	2	Q.34	3	Q.35	4
Q.36	4	Q.37	1	Q.38	3	Q.39	2	Q.40	2
Q.41	3	Q.42	3	Q.43	1	Q.44	3	Q.45	1
Q.46	4	Q.47	2	Q.48	2	Q.49	3	Q.50	3

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29/06/2024-> (4:00 PM - 6:00 PM)

Quantitative Aptitude

Q.1)- Simplify $8.16 \times 5.35 + 17.9 - 19.5 \text{ of } \frac{1}{15} + \frac{1}{5}$

1. 57.426 2. 65.234 3. 70.225 4. 60.456

Q.2)- If $x^2 - 6x - 1 = 0$, then find the value of $x^2 + \frac{1}{x^2} - 8$.

1. 32 2. 34 3. 30 4. 28

Q.3)- A dishonest dealer claims to sell his products at 24% loss on the cost price but uses 100 g weight instead of 200 g weight. His profit percentage is:

1. 40% 2. 55% 3. 48% 4. 52%

Q.4)- If 12 people can print 540 identical books in 10 days, then how many more people will be required to print 720 such books in 8 days?

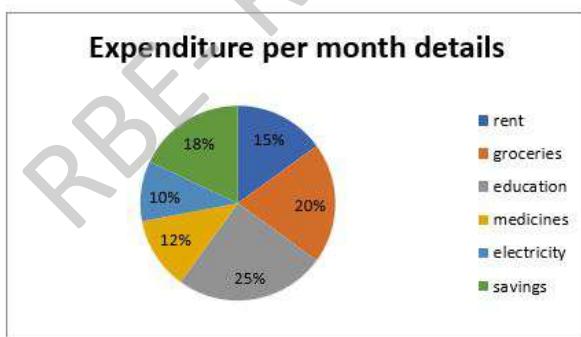
1. 8 2. 12 3. 4 4. 6

Q.5)- Sumit and Rajiv, working together, can do a job in 20 hours whereas Sumit alone can do the same job in 25 hours. In how many hours can Rajiv alone do the job?

1. 70 2. 90 3. 100 4. 80

The following pie-chart shows details of the per month expenditure of a family.

Study the pie-chart carefully and answer the question that follows.



The expenditure on rent, medicines and electricity together is what percentage of the expenditure on groceries and education together?

Q.6)-

1. 80.22% 2. 70.82% 3. 82.22% 4. 76.52%



Study the given table and answer the question that follows.

The table shows the production of five different types of cars by a company from 1989 to 1994.

Year → Type ↓	1989	1990	1991	1992	1993	1994	Total
P	8	20	16	17	21	6	88
Q	16	10	14	12	12	14	78
R	21	17	16	15	13	8	90
S	4	6	10	16	20	31	87
T	25	18	19	30	14	27	133
Total	74	71	75	90	80	86	476

In which year was the production of cars of all types taken together approximately equal to the average of the total production during the period?

Q.7)-

- 1. 1991 2. 1990 3. 1993 4. 1992**

Q.8)- If $\cos A = \frac{4}{5}$, then find the value of $(8 + \sin A)(3 - \tan A)$.

- 1. $\frac{381}{20}$ 2. $\frac{387}{20}$ 3. $\frac{367}{20}$ 4. $\frac{373}{20}$**

एक मिठाई में एक तिहाई चीनी है। यदि चीनी की कीमत अब पिछले कीमत की $\frac{7}{6}$

Q.9)- है, तो मिठाई की लागत में प्रभावी प्रतिशत वृद्धि कितनी है?

- 1. $\frac{100}{3}\%$ 2. $\frac{100}{18}\%$ 3. $\frac{100}{9}\%$ 4. $\frac{200}{9}\%$**

The following table gives information of Panchayat elections held in four villages P, Q, R and S.

Villages	Total available votes (in thousands)	Votes polled (in %)	Valid votes (in %)
P	40	80	90
Q	50	90	80
R	60	75	80
S	80	80	85

Q.10)- Find the ratio of invalid votes of village P to that of village S.

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

Q.11)- The value of $15 - 16 \div [4 + (5 + 7) \div 3]$ is equal to:

- 1. 13 2. 11 3. 18 4. 17**

What is the value of $\frac{[(\sin x + \sin y)(\sin y - \sin x)]}{[(\cos x + \cos y)(\cos y - \cos x)]}$?

Q.12)-

- 1. -1 2. 1 3. 0 4. 2**

Q.13)- Ramesh spent ₹30,000 on Diwali shopping and ₹45,000 on buying a TV set, and the remaining 40% of the total amount he had as cash with him. What was the total amount (in ₹)?



- 1. 1,22,000 2. 1,35,000 3. 1,10,000 4. 1,25,000**

Q.14)- A man borrowed ₹29,000 for 3 years and ₹45,000 for 5 years at the same rate of simple interest. If he paid a total interest of ₹62,400, then what was the rate of interest?

- 1. 27% 2. 18% 3. 20% 4. 25%**

Q.15)- A scalene triangle ABC has two sides whose measures are 3.8 cm and 6 cm, respectively. Which of the following CANNOT be the measure (in cm) of its third side?

- 1. 2.2 2. 3.0 3. 2.4 4. 2.7**

Q.16)- The area of a circle is 256π square cm. The length of its longest chord (in cm) is:

- 1. 16 2. 32 3. 34 4. 36**

The quantity of milk in a mixture of milk and water is $\frac{4}{5}$ of the volume of the

mixture. After adding 1 liter of milk to 5 liters of the mixture, the percentage of

Q.17)- water in the mixture is:

- 1. 15% 2. 17.5% 3. $\frac{100}{6}\%$ 4. $\frac{200}{6}\%$**

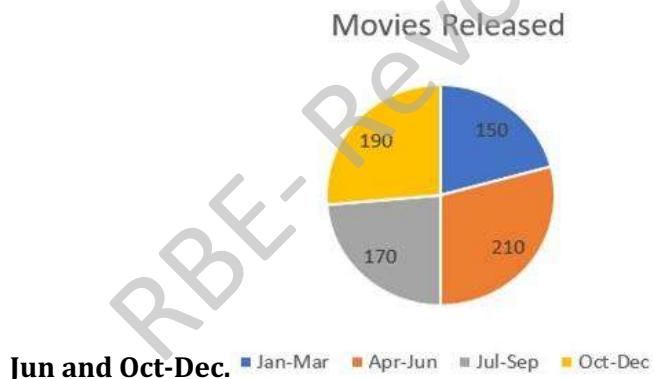
Q.18)- A shopkeeper sold 3 wristwatches for ₹2,800 each. If he has sold the watches with 40%, 25% and 12% profit, respectively, then find his overall profit percentage (correct to 2 decimal places).

- 1. 0.2463 2. 0.2455 3. 0.2419 4. 0.2475**

Q.19)- If the length and breadth of a cuboid are increased by 6% and 8%, respectively, then the percentage increase in its volume (correct to two decimal places) is:

- 1. 12.96% 2. 13.96% 3. 14.48% 4. 11.48%**

Q.20)- The following pie chart represents the data of movies released in a city throughout a year. The combined angle made by Jan-Mar and Jul-Sep is _____ than the combined angle made by Apr-



- 1. 80° more 2. 40° more 3. 40° less 4. 80° less**

$$\frac{53 - \frac{2}{7} \text{ of } 63 - 9}{72 - \frac{2}{5} \text{ of } (96 - 31)}$$

Q.21)- Simplify the given expression.

- 1. $\frac{11}{23}$ 2. $\frac{26}{23}$ 3. $\frac{13}{23}$ 4. $\frac{7}{23}$**

Q.22)- In an election, 95% of the total voters cast their votes. In this election, there were only two candidates A and B. The winner A, by obtaining 75% of the total votes, defeated his contestant B by 5500 votes. Find the total number of voters in the election.

- 1. 12,000 2. 13,000 3. 11,000 4. 10,000**

Q.23)- The side PR of a ΔPQR is extended to S such that $QR = RS$. If $\angle PRQ = 86^\circ$, then find the value of $\angle PSQ$.

- 1. 54° 2. 94° 3. 43° 4. 86°**

Q.24)- If a car runs at a speed of 60 km/h and takes 180 minutes to cover a certain distance, then what time will it take to cover the same distance at a speed of 40 km?

- 1. 4 hr 30 min 2. 3 hr 45 min 3. 3 hr 15 min 4. 3 hr**

Q.25)- In a circle, the chords AB and CD intersect each other at point L (internally). If $AL = 8 \text{ cm}$, $LB = 6 \text{ cm}$ and $LD = 5 \text{ cm}$, then find the CL.

- 1. 7.6 cm 2. 10.6 cm 3. 9.6 cm 4. 8.6 cm**

Q.27)- Simplify the following expression. $3\frac{1}{7} \div 1\frac{4}{7} + 3 \text{ of } 2\frac{2}{3} + 2.5 \times 2.4 \div 3\frac{1}{3} - 4 \text{ of } 3$

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

Q.28)- The value of $\frac{17}{\sec^2\theta} + 10 \sin^2\theta + \frac{7}{1 + \cot^2\theta}$ is:

- 1. 20 2. 34 3. 17 4. 19**

Q.29)- Simplify the given expression. $55\frac{1}{3} \div [3\frac{1}{5} + \{2\frac{1}{2} - (2\frac{1}{3} + \frac{3}{5})\}]$

- 1. 20 2. 25 3. 15 4. 35**

Q.30)- The ratio of the speed of a boat to that of the current water is 35 : 8. The boat goes along with the current in 5 hours 10 minutes. What will be the time taken by the boat to come back?

- 1. 9 hours 30 minutes 49 seconds
2. 6 hours 45 minutes 10 seconds
3. 8 hours 13 minutes 48 seconds
4. 5 hours 15 minutes 58 seconds**

Q.31)- Find the value of $[16 \div 2 - 7 \times 15 \div 3 + \{(1+4) \times 5\} + 4 \times 3 - 10]$.

- 1. 2 2. 0 3. -2 4. 4**

Q.32)- The population of a town is 15000. If the population increases by 15% in the first year, by 25% in the second year and due to pollution it decreases by 6% in the third year, what will be its population after 3 years? (Round off number in answer)

- 1. 25269 2. 20269 3. 15269 4. 28269**



Q.33)- A shopkeeper offers a 10% discount on dairy products and still manages to make a 20% profit. What is the actual cost (in ₹) to the shopkeeper of a dairy product marked ₹420?

- 1. 315 2. 340 3. 325 4. 350**

Q.34)- Two rectangular sheets of paper, each 60 cm × 36 cm, are made into two right circular cylinders, one by rolling the paper along its length and the other along the breadth. The ratio of the volumes of the two cylinders, thus formed, is:

- 1. 7 : 4 2. 5 : 3 3. 8 : 3 4. 5 : 6**

Q.35)- A man travels some distance from his house to the exhibition ground by an auto at a speed of 30 km/h and returns by a cab at a speed of 50 km/h. What is his average speed (in km/h)?

- 1. 37.5 2. 28 3. 40 4. 38**

$$\frac{61 + \frac{2}{5} \times 75 \div 6 - \left(3 \times 6 \div \frac{1}{3} \right) \times \frac{1}{6}}{5 + \frac{2}{3} \times (58 - 37)} \text{ is:}$$

Q.36)- The value of

- 1. 19 2. 11 3. 3 4. 57**

Q.37)- A student goes to his school by cycle. The distance from his house to school is 5 km and he covers this distance in 1 hour. While going he stops twice for 5 minutes each. Find his average speed (in km/h).

- 1. 4.5 2. 6.5 3. 5.5 4. 6**

Q.38)- Two trains, P and Q, are running on parallel tracks in opposite directions with lengths of 110 m and 140 m, respectively. Train P is running at a speed of 70 km/h and took 5 seconds to cross train Q. The speed of train Q is:

- 1. 110 km/h 2. 120 km/h 3. 90 km/h 4. 100 km/h**

The length of a side of an equilateral triangle is 18 cm. The area (in cm^2) of the region lying

Q.39)- between the circumcircle and the incircle of the triangle is [use $\pi = \frac{22}{7}$]

- 1. $254\frac{3}{7}$ 2. $254\frac{2}{7}$ 3. $254\frac{1}{7}$ 4. $254\frac{4}{7}$**

Q.40)- If $2a + 2b + c = 0$, then find the value of $\frac{4a^2 + 4b^2 + 4c^2}{5c^2 - 8ab}$.

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

Find the mean from the following table (rounded off to two decimal places).

Score	Frequencies
15	2
18	3
21	4
22	1
19	5
23	1
24	2

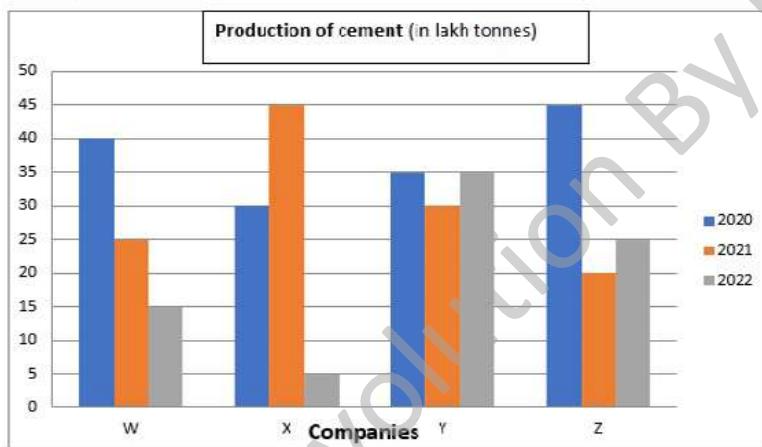
Q.41)-

- 1. 18.44 2. 17.56 3. 20.82 4. 19.78**

Q.42)- The value of $\sin^2 15^\circ + \sin^2 25^\circ + \sin^2 35^\circ + \sin^2 45^\circ + \sin^2 55^\circ + \sin^2 65^\circ + \sin^2 75^\circ$ is:

- 1. $\frac{7}{2}$ 2. 7 3. $\frac{7}{3}$ 4. 4**

The following bar graph shows the production of cement (in lakh tonnes) of four companies—W, X, Y, and Z—over the years.



The production of cement by company X in 2020 and production of cement by company Z in 2022 together is what percentage of the production by company W in 2021?

Q.43)-

- 1. 180 2. 250 3. 275 4. 220**

Q.44)- Simplify $45 \div 5 \times 5 + 10 - 5$.

- 1. 60 2. 40 3. 50 4. 30**

The ratio of the slant height and the height of a cone is $4 : 3$. If the curved surface area of the cone is $4\sqrt{7}\pi$ square units, then the radius of the cone is _____ units.

- 1. $\frac{\sqrt{7}}{7}$ 2. 7 3. $7\sqrt{7}$ 4. $\sqrt{7}$**

Q.46)- If the radius of a sphere is increased by 20%, then find the percentage increase in its volume.

- 1. 75.5% 2. 68.5% 3. 72.8% 4. 70.6%**

Q.47)- If $a = (\sqrt{2} - 1)^{\frac{1}{3}}$, then the value of $\left(a - \frac{1}{a}\right)^3 + 3\left(a - \frac{1}{a}\right)$ is:

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

Q.48)- A seller marks an item for ₹500 and sells it at a discount of 25%. He also gives a gift worth ₹65. If he still makes 24% profit, then the cost price of the item (in ₹) is:

- 1. 320 2. 270 3. 250 4. 280**

The table below shows the number of mobile phones that were sold by the show rooms in the years from 2016-2020.

Years/show room	P	Q	R	S	T	U
2016	220	230	250	280	240	260
2017	310	300	320	340	330	350
2018	400	380	410	420	440	430
2019	450	350	380	420	410	430
2020	420	430	410	440	400	420

Q.49)- What will be the average number of mobile phones sold by all the show rooms in the year 2020?

- 1. 420 2. 405 3. 410 4. 415**

Q.50)- Simplify $250 + [100 - \{50 - \{30 + 15\}\}]$.

- 1. 345 2. 280 3. 255 4. 360**

Answer key

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

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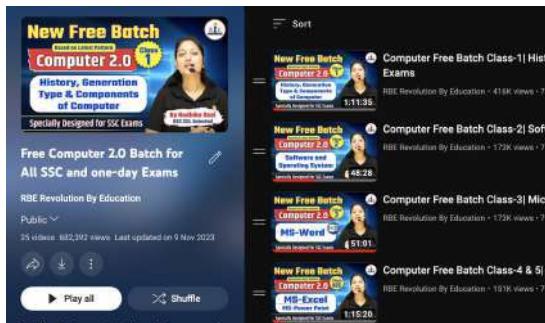
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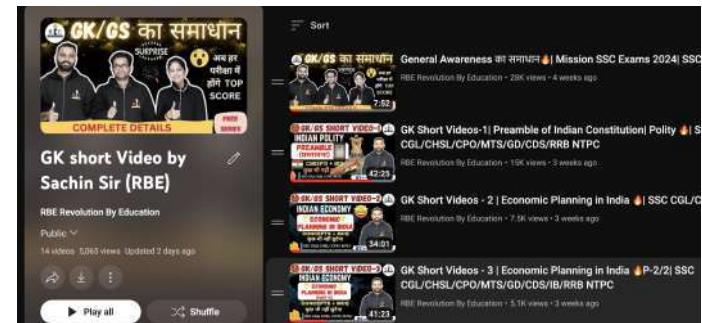
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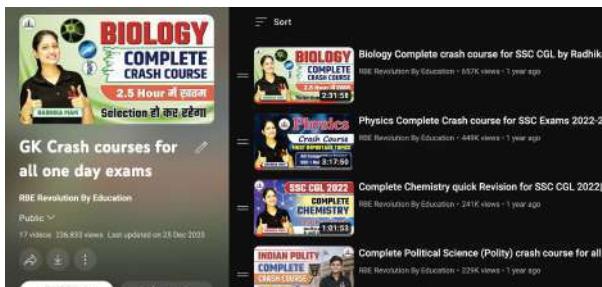
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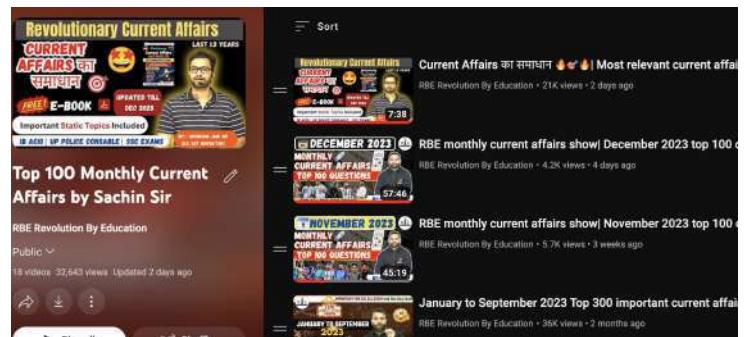
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