SBI CLERK PRELIMS 2019

MEMORY BASED

Quantitative Aptitude

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**Direction (1-5): Quadratic Equation**

1) \(x^2 - 22x + 105 = 0\)
\(y^2 - 27y + 162 = 0\)
Ans: \(x = 15, 7\)
\(y = 18, 9\)

2. I \(3x^2 - 25x + 52 = 0\),
II. \(3y^2 - 10y - 8 = 0\)
Ans: \(x = 4, 13/3\)
\(y = -2/3, 4\)

3. I \(3x^2 - 5x - 12 = 0\),
II. \(3y^2 - 8y - 16 = 0\)
Ans: \(x = -4/3, 3\)
\(y = -4/3, 4\)

4. I \(4x^2 + 3x - 27 = 0\),
II. \(3y^2 - 20y + 32 = 0\)
Ans: \(x = 2.25, -3\)
\(y = 8/3, 4\)

5. \(x^2 - 32x + 247 = 0\)
\(y^2 - 22y + 117 = 0\)
Ans: \(x = 13, 19\)
\(y = 13, 9\)

**Direction (6-10): Missing Number Series**

11, ?, 16, 21, 29, 41 = 58

1800, ?, 60, 15, 5, 2.5 =

?, 100, 150, 375, 1312.5 = 200

0, 6, 24, 60, ?, 210 = 120

4, 3, 4, 9, 32, ? = 155

Direction (11-20):

11) \(12.5 \times 14 \div 8.75 + 12 = 20 + ?\)
Ans: 12

12) \(20 \times 168 \div 14 - 40 = ? + 110\)
Ans: 90

13) \(5616 \div 18 + 8 = ?\)
3

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14) \(x \times (523.5 + 687.5) = 24220\)
Ans: 20

15) \((4270 \div 122) + ? = 200\)
Ans: 165

16) \(8934 - 3257 + 481 = ? + 2578\)
Ans: 3580

17) \(45\% \text{ of } 870 + 67\% \text{ of } 1250 - 21\% \text{ of } 540 = ?\)
Ans: 1115

18) \((\frac{1}{4} \text{ of } 2400) \times \frac{2}{5} \text{ of } 725 = ? - 12\% \text{ of } 25\)
Ans: 1743

19) \(\sqrt{12 \times 145 \div 6 + 34} = ?\)
Ans: 18

20) \(1637 + 1832 = (45)^2 + (?)^2\)
Ans: 38

21. An amount of money is to be distributed among A, B and C in the ratio 3 : 1 : 5. The difference between B’s and C’s share is Rs. 3600. What is the total of A’s and B’s share?
Ans: 3600

22. A started a business with capital of Rs. 20000 Four months later B joined as a partner with a capital of Rs. 10000. What is the share of A out of total profit of Rs. 4000 at the end of the year.
Ans: 3000

23. A boat takes 9 hr to travel a distance upstream and takes 3 hr to travel the same distance downstream. If the speed of the boat in still water is 4 kmph, then what is the velocity of the stream?
Ans: 2 km/h

24. If the difference between CI and SI earned on a certain amount at 20% pa at the end of 3 years is Rs.640, find out the principal.
Ans: 5000

25. Not Remember ........
Given below is the bar graph showing the production of Book by 6 companies, Arihant, Kiran, Ambitiousbaba, Upkar, Olive and Lucent in two consecutive years 2015 and in 2016.

26. What is the difference between average production of Book by Kiran for both year and Lucent for both year?

Ans:
Required difference
\[
= \frac{(230 + 370)}{2} - \frac{(200 + 380)}{2} = 300 - 290 = 10
\]

27. What is the average of sum of book production by companies Arihant in 2015, Olive in 2016 and Upkar in 2016?

Required average
\[
= \frac{150 + 240 + 360}{3} = \frac{750}{3} = 250
\]

28. If production of Books of company Upkar in 2017 increases by 20% in comparison to previous year and production of Book by company Olive in 2017 increases by 25% in comparison to previous year then what is the sum of production of Books in 2017 for firm Upkar and Olive together?

Production of book by Upkar in 2017 = 360*120/100=432
Production of book by olive in 2017 = 240* 125/100=300
Total Production of book by Upkar and Olive in 2017= 432 + 300=732
29. What is the ratio of production of mouse by company Arihant in 2015 and Lucent in 2015 together to the production of Olive in 2016 and Upkar in 2016 together?

Required ratio = \( \frac{150 + 200}{240 + 360} = \frac{350}{600} = 7 : 12 \)

30. Production of book for company Kiran in both years is what % more or less than production of Book for company Ambitious baba in 2016 and company Olive in 2015 together. (approximately)

Required % = \( \frac{620-600}{620*100} = 3.22\% \)

31. Total 270 (boys + girls) come school on Monday and Tuesday together. If 60 girls come each day and ratio of boys come school on Monday to Tuesday is 1 : 2, then find number of boys come school on Monday?

Ans: Total boys come school on Monday and Tuesday together = 270 - \([60 + 60]\) = 150

Total boys come school on Monday = 150 \times \frac{1}{3} = 50

32. Ram expend 25% of his monthly salary and 20% of remaining salary he gives his mother. If Ram save Rs. 9000, then find his annual salary?

Ans: Let Ram monthly salary = 100x

Ram saving = 100x - \( \left( 100x \times \frac{25}{100} + 100x \times \frac{25}{100} \times \frac{20}{100} \right) = 60x \)

Given, 60x = 9000 Rs.

\( x = 1500 \) Rs.

Ram annual salary = 15000 \times 12 = 180000 Rs.

33. A & B can complete a work in four days and A is 40% more efficient than B. If with the help of C they complete the same work in three days, then find B & C together complete the same work in how many days?

Ans: Let efficiency of B = 5x units/day

So, efficiency of A = \( 1.4 \times 5x = 7x \) units/day

Total work = \((5x + 7x) \times 4 = 48x \) units

Efficiency of C = \( \frac{48x}{3} \) - \(5x + 7x\) = \(4x\) units/day

Required days = \( \frac{48x}{(5x+4x)} = 5 \times \frac{1}{3} \) days

34. Updated soon

35. Updated soon

2nd Shift

8, 13, 23, 40, 66, 103, ?
4, 24, 120, 480, 1440, ?
8, 4, 5, 13, 56, ?
7, 13, 20, 28, 37, ?
2, 5, 14, 41, 122, 166, ?

3rd Shift 22nd June 2019
Q1. Total 270 (boys + girls) come school on Monday and Tuesday together. If 60 girls come each day and ratio of boys come school on Monday to Tuesday is 1 : 2, then find number of boys come school on Monday?

Total boys come school on Monday and Tuesday together = 270 – (60 + 60) = 150
Total boys come school on Monday = 150 × 1/3 = 50

Q2. Ram expend 25% of his monthly salary and 20% of remaining salary he gives his mother. If Ram save Rs. 9000, then find his annual salary?
Let Ram monthly salary = 100x
Ram saving = 100x – (100x × 25/100) = 75x
Given, 60x = 9000 Rs.
x = 150 Rs.
Ram annual salary = 15000 × 12 = 180000 Rs

Q3. A & B can complete a work in four days and A is 40% more efficient than B. If with the help of C they complete the same work in three days, then find B & C together complete the same work in how many days?
Let efficiency of B = 5x units/day
So, efficiency of A = 1.4 × 5x = 7x units/day
Total work = (5x + 7x) × 4 = 48x units
Efficiency of C = 48x
Required days = 48x / (5x + 4x) = 5 1/3 days

Q4. A man invested Rs. 10000 a scheme -A on Ci at the rate of 10% p.a. for two years and interest gets from scheme – A reinvested in scheme – B on SI at the rate of 14% p.a. for three years. Find interest get by man from scheme B?
CI get from Scheme A = 10000 × 21/100 = 2100 Rs.
So, Interest get from scheme B = 2100 × 42/100 = 882 Rs

Q5. Radius of a circle is 3/4 of side of square, which perimeter is 112 cm. Find area of square?
Given, R = 3/4 × 112/4 = 21 cm
Area of square = 21 × 21 × 21 = 1386 cm²
Q6. Ratio of downstream and upstream speed of boat – A is 5 : 9. If boat A cover 81 km in 4.5 hours in downstream, and speed of boat – B is 17 km/hr in still water, then find distance covered by boat – B in 4 hours in downstream (assume speed of stream same)?

Let speed of boat and stream be ‘x’ & ‘y’

ATQ –
\[
\begin{align*}
\frac{x-y}{5} &= \frac{y}{9} \\
x+y &= 9 \\
9x - 9y &= 5x + 5y \\
4x &= 14y \\
x &= 3.5y \\
4.5y &= 4.5 \\
y &= 4 \text{ km/hr}
\]

Required distance = \(4 \times (17 - 4) = 52 \text{ km}\)

Q7. Coat price of article A & B is same. If B sold at 16\(^\frac{2}{4}\)% loss and A sold at 20% profit, then total selling price of both articles is Rs. 1320. Find at what price A sold to make a profit of 25%?

Let cost price of each article = 100x

Selling price of A = 120x

Selling price of B = \(\frac{50x}{3}\)

ATQ –
\[120x + \frac{50x}{3} = 1320\]
\[x = 6 \text{ Rs.}\]

Required selling price = 600 \(\times \frac{5}{4} = 750 \text{ Rs}\)

Direction (8 – 12): Line graph shows books sold by two shops in four months. Read the data carefully and answer the questions.

Q8. Book sold by A in June what percent grew up over May?
Q9. If another shop ‘C’ sold book in March, which is \(\frac{5}{11}\)th to books sold by shop A in same month, then find number of books sold by C in March?

Required number = \(88 \times \frac{5}{11} = 40\)

Q10. Find the ratio of total books sold by A in May & B in March together and total books sold by A & B in June together?

Required ratio = \(\frac{56 + 64}{90 + 36} = 30 : 31\)

Q11. If total 21 books sold by A in March are misprinted, then find number of books which are not misprinted?

Required number = \(88 - 21 = 67\)

Q12. Total books sold by B in the Month of May is what percent more than total books sold by same shop in March?

Required percentage = \(\frac{64 - 40}{40} \times 100 = 60\%\)

Q13. 56, 67, 61, 72, 66, ?

This is double series and pattern is –

+5, , +5, +5 .........

So, next term = \(72 + 5 = 77\)

Q14. 27.1, 25.8, 23.2, 19.3, 14.1, ?

Pattern of series –

\(27.1 - 1.3 = 25.8\)
\(25.8 - 2.6 = 23.2\)
\(23.2 - 3.9 = 19.3\)
\(19.3 - 5.2 = 14.1\)
\(14.1 - 6.5 = 7.6\)

Q15. 7, 6, 10, 27, 104, ?

Pattern of series –

\(7 \times 1 - 1 = 6\)
\(6 \times 2 - 2 = 10\)
\(10 \times 3 - 3 = 27\)
\(27 \times 4 - 4 = 104\)
Q16. 6, 12, 36, 144, 720, ?
Pattern of series –
6 × 2 = 12
12 × 3 = 36
36 × 34 = 144
144 × 5 = 720
720 × 6 = 4320

Q17. 15% of (250 + ?) = 63
\[
\begin{align*}
\frac{450 + 32}{20} &= 630 \\
? &= 270
\end{align*}
\]

Q18. \[
\begin{align*}
\frac{1}{5} + \frac{7}{10} + ? &= \frac{5}{10} \\
\frac{51 - 7 - 16}{10} &= \frac{4}{5}
\end{align*}
\]
? = 2

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