

Section : A

- 1) $25\% + 37\% + \underline{\hspace{1cm}} = 100\%$.
- 2) Define :- Rational no.
- 3) If $x = -1$, find the value of $3x - 5$
- 4) If $a = 2$, $b = -1$, find the value of $ab + a^2b + ab^2$.
- 5) Reduce the ratio $45:10$ in smallest form.
- 6) There are Natural no. between two consecutive natural numbers.

Section : B

- 7) Find the ratio a) 5m to 5 km b) 25 paise to ₹ 2.
- 8) Give 3 rational no. equivalent to $-\frac{3}{5}$.
- 9) Write 3 rational no. between $\frac{3}{2}$ and $\frac{2}{3}$.
- 10) which is greater $\frac{4}{5}$ or $\frac{5}{4}$.
- 11) Add :- $2x - 1$; $2x + y + 4$; $3x + 1$
- 12) Represent $-\frac{3}{4}$ on number line.

Section : C

- 13) Convert the given percentage in to fractions
a) 25% b) 0.2% c) 33% d) 125%
- 14) If $x = 3$, find the value of $x^2 - 2x + 1$.
- 15) If $y = -\frac{1}{4}$, find the value of $3x^3 - 4x + 10$.
- 16) Out of 25 children in class, 15 are girls. what is the percentage of girls?
- 17) Meeta saves Rs 400 from her salary. If this is 10% of her salary. What is her salary?
- 18) The cost of a flower vase is Rs 140. If the shopkeeper sells it at a loss of 10%. find the price at which it is sold.
- 19) Mahavir pays an interest of Rs 150 for 3 years on a

20) find the value of a) $(-\frac{7}{12}) \div (\frac{2}{13})$ b) $-\frac{6}{5} \times \frac{9}{11}$

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Section D

21) From the sum of $4+7x$ and $5-3x+x^2$, subtract the sum of $-2x^2-3x$ and $-2x^2+x-4$.

22) What should be taken away from $2x^2-y^2+xy+10$ to obtain $-x^2-y^2+3xy-5$?

23) What should be the value of k , if the value of $2x^2+x-k$ equals to 5, when $x=0$?

24) When $a=0$, $b=-1$, find the value of: $2a^2b+2ab^2+ab$.

25) Draw the number line and represent the following numbers on it

(a) $-\frac{4}{5}$ (b) $2\frac{3}{4}$ (c) $-1\frac{4}{7}$ (d) $-\frac{4}{2}$

26) Simplify: $\frac{3}{2} \div 1\frac{1}{2} \times \frac{4}{5} - \frac{6}{5}$

27) Write the following rational numbers in ascending order

$\frac{1}{3}, -\frac{2}{9}, -\frac{4}{3}$

28) The number of illiterate persons in a country decreased from 150 lakhs to 100 lakhs in 10 years. What is the percentage of decrease?

29) Arun bought a car for Rs 4,00,000. The next year, the price went up to Rs 4,23,000. What was the percentage of the ~~car~~ price increase?

30) What rate gives Rs 480 as interest on a sum of Rs 28000 in 2 years?