

General Mathematics (New)

9th (Fresh/Reappear)

ہر سوال کے سامنے چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ بھر دیں۔

دائروں کو شیڈ (بھرنے) کے لیے غلط یا گالے رنگ کا لکڑا استعمال کریں۔

جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہو گا۔

Time: 20 Minutes

SECTION-A

Marks

Q1: Choose the correct option i.e, A,B,C or D?

1. $(A \cap B)' = \underline{\hspace{2cm}}$
☒ $A' \cup B'$ ☐ $A' \cap B'$ ☐ $A' \cup B$ ☐ $A \cap B'$
2. For $y=2$ in $2x-y=6$, we have $x= \underline{\hspace{2cm}}$
☐ -2 ☐ 2 ☐ -4 ☒ 4
3. G.M between -3 and -12 are $\underline{\hspace{2cm}}$
☐ $\div 3$ ☒ ± 6 ☐ ± 9 ☐ ± 16
4. Find the range of the function $y=3x$ for the domain $\{1,2,3\}$
☐ $\{1,2,3\}$ ☐ $\{0,3,6\}$ ☒ $\{3,6,9\}$ ☐ $\{3,3,3\}$
5. The coordinate $(-3,-2)$ lies in quadrant $\underline{\hspace{2cm}}$
☐ I ☐ II ☒ III ☐ IV
6. In a sequence $a_1=3$, $r=2$ then 7th term is $\underline{\hspace{2cm}}$
☐ 27 ☐ 64 ☐ 162 ☒ 192
7. The line $y=1$ is parallel to $\underline{\hspace{2cm}}$
☒ x-axis ☐ y-axis ☐ Both axis ☐ None
8. Most frequent value in data is called $\underline{\hspace{2cm}}$
☐ Mean ☐ Median ☒ Mode ☐ Range
9. The amount which is paid by a bank on the deposits is called
☐ Premium ☐ Bonus ☒ Profit ☐ Markup
10. Fractional form of 70% is $\underline{\hspace{2cm}}$
☐ 7 ☒ $\frac{7}{10}$ ☐ $\frac{10}{7}$ ☐ $\frac{70}{10}$
11. If $12x:36:27$, then $x= \underline{\hspace{2cm}}$
☐ 3 ☐ 6 ☒ 9 ☐ 12
12. If a farmer uses an artificial irrigation system, the ushr rate will be $\underline{\hspace{2cm}}$
☒ 5% ☐ 10% ☐ 15% ☐ 20%
13. If cost price is Rs. 35000, profit % = 7.5%, then profit = $\underline{\hspace{2cm}}$
☐ Rs. 5000 ☒ Rs. 5250 ☐ Rs. 5500 ☐ Rs. 5276
14. Write 24.5×10^3 in scientific notation $\underline{\hspace{2cm}}$
☐ 24.5 ☐ 2.45 ☒ 2.45×10^4 ☐ 2.45×10^2
15. Characteristics of 0.325 is $\underline{\hspace{2cm}}$
☒ -1 ☐ 1 ☐ -2 ☐ 2

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Note: Time allowed for Section-B & Section-C is 2:40 hours.

SECTION-B

Marks: 36

Q2: Attempt any NINE parts. Each part carries FOUR marks.

1. Bilal earns 22000 rupees in a month and spends 65% of his income. How much does he save in one month?
2. Safina paid Rs. 4890 as Zakat. She had Rs. 50000 cash and some Jewellery. Find the value of her Jewellery.
3. Amjad sold a watch for Rs. 1800 at a loss of 10%. Find the cost price.
4. Salman bought a mobile for Rs. 19400. If a discount of 14% is given to him. Find the marked price.
5. Zaid deposits a sum of Rs. 700000 in a bank for which he gets Rs. 6000 per month. Calculate the profit rate.
6. The cost of a cigarette pack is Rs. 28. If 25% is the excise duty on cigarette then compute the price for the consumers.

7. Simplify
$$\frac{(P^a)^b \cdot (P^b)^c \cdot (P^c)^a}{(P^c)^a \cdot (P^a)^b \cdot (P^b)^c}$$

8. Find the value of "x" if $\log_3 x = \frac{-3}{2}$.
9. Write in single logarithm $3\log a - \log a^2 b + 5\log b$
10. Insert two arithmetic mean between 5 and 15.
11. In an AP if $a_n = 5n - 2$. Find the first four terms.
12. $A = \{a, b\}$, $B = \{4, 5, 6\}$ then write 4 binary relations from A to B.

SECTION-C

Marks: 24

Note: Attempt any THREE questions. All questions carry equal marks.

- QIII: 14 typists can compose a book in 18 days by working 5 hours daily. How many days will it take 21 typists to compose the same book, the computer by working 6 hours daily?
- QIV: If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 2, 3, 4\}$ and $B = \{3, 4, 5\}$ then draw Venn diagrams for A' , B' , $A' \cup B'$ and $A' \cap B'$.
- QV: Draw the graph of the given equations:
(a) $x + 2y = 6$ (b) $3x + y = 4$
- QVI: Find Q_1 and Q_3 for the given data 10, 12, 16, 20, 18, 22, 24, 25

