

MRD-9th (2025)

Time: 3 Hours

General Mathematics-9th

Marks: 75

Note: There are three sections in this paper i.e, A,B & C?

Version: A

INSTRUCTION:

- Please attempt Section-A on the MCQs Answer Sheet only.
- Only black ball point or marker may be used for shading the relevant circle.
- Please make sure that there is no cutting, over writing, erasing, or multiple circles shading.

Time: 20 Minutes

SECTION-A

Marks: 15

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

- Formula for geometric mean of two numbers a and b is.
☐ $G = (A+B)$ ☐ $G = \sqrt[3]{ab}$ ☐ $G = (a-b)$ ☐ None
- Characteristic of $\log 543,25$ is.
☐ 2 ☐ 3 ☐ 4 ☐ 5
- According to De-Morgans Law $(A \cup B)^1$ is:
☐ $A^1 \cup B^1$ ☐ $A \cup B$ ☐ $A^1 \cap B^1$ ☐ $A \cap B$
- If F is a function from A to B then it is an ON TO function if.
☐ Range $f \neq A$ ☐ Range $f = B$ ☐ Dom $f = A$ ☐ None
- The most frequent value in data is called.
☐ Mean ☐ Median ☐ Mode ☐ GM
- In scientific notation the number 532000 will be.
☐ 5.32×10^{-5} ☐ 5.32×10^5 ☐ 53.2×10^5 ☐ None
- $A \cup A^1$
☐ $\cup$ ☐ A ☐ A^1 ☐ ϕ
- Usher is payable on.
☐ Crop ☐ Gold ☐ Silver ☐ All
- Rate of Zakat is _____ of the savings.
☐ 2.5% ☐ 1/40th ☐ 0.025 ☐ All
- Yen is the currency of.
☐ America ☐ China ☐ Japan ☐ Russia
- Gas is measured in.
☐ HM^3 ☐ HM^2 ☐ HM^8 ☐ HM^5
- Base in common logarithm is _____.
☐ e ☐ π ☐ 10 ☐ 5
- Geometric mean between $\frac{1}{-}$ and $\frac{4}{-}$ is.

$$\bigcirc \pm \frac{4}{9}$$

$$\bigcirc \pm \frac{5}{3}$$

$$\bigcirc \pm \frac{2}{3}$$

$$\bigcirc \pm \frac{5}{9}$$

14. The point (3, -4) is located in.
☐ Quadrant-I ☐ Quadrant-II ☐ Quadrant-III ☐ Quadrant-IV
15. The difference of the largest and smallest value in the data is called.
☐ Mean ☐ Mode ☐ Range ☐ Standard deviation

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Marks: 80

SECTION-B

Marks: 30

Q2: Attempt any NINE parts. All parts carry equal marks?

- Maryam reduced her weight by 6.25%. If her present weight is 45 kg, what was her actual weight?
- In what ratio 740 be decreased to become 25?
- Find x in the following proportions $11 : x :: 55 : 95$
- Waqas paid Rs. 1650 as Zakat. Find his savings?
- A business man earned Rs. 300,000 in 2004. Calculate the income tax amount?
- Write the next two terms in $Ap-2, 0, 2, \dots$?
- Find the logarithm of the following numbers 92.5?
- If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{2, 5, 6\}$ and $B = \{1, 2, 3\}$ then draw Venn diagram for $(A \cup B)$?
- Draw the graph from the table as given below:

x	1	2	3	4	5
y	-1	2	5	8	11
- Write the following data in ascending or descending orders; 20, 25, 34, 42, 58, 33, 40, 24, 32, 50
- Find the median of the given values 3, 4, 6, 8, 11?
- Simplify with the help of exponential law $x^{\frac{2}{3}} : x^{\frac{1}{8}}$?

SECTION-C

Marks: 24

Q3: Attempt any THREE questions?

- A shopkeeper bought 5 dozen shampoo bottles at the rate of Rs. 2400 per dozen and sold them for Rs. 210 each. Find his profit or loss percentage?
- Simplify with the help of logarithm $\frac{(86.2)^2 (37.37)}{591}$
- The price of a TV set in US dollars is \$90. If the custom duty paid is

- 10%. Calculate the price in PKRs?
4. Find AM between 7 and 5?

