

GENERAL MATHS 9th
SSC-9th-Swat-2026

Time: 20 Minutes

Marks: 15

Multiple Choice Questions
01 Mark for each

P-651

Roll No. of the Student

Serial No. Of the Answer Book

SECTION-A

Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.
Fill the circle (A) (B) (C) (D), which one is correct with blue or black ball point in separate OMR Sheet like ●
If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

1. If $16 : x :: x : 9$, then $x =$ _____
 (A) 10 ● 12 (C) 14 (D) 16
2. Ushr is payable on _____
 ● Crop (B) Gold (C) Silver (D) All of these
3. Cost price is Rs 550, selling price is Rs 594. Profit % is _____
 (A) 44% (B) 24% ● 8% (D) 2%
4. Yen is the currency of _____
 ● Japan (B) India (C) China (D) America
5. $3^5 = 243$ in logarithmic form _____
 (A) $\log_3 5 = 243$ ● $\log_3 243 = 5$ (C) $\log_5 243 = 3$ (D) $\log_5 3 = 243$
6. The general term of the A.p 6, 10, 14, 18, 22, ...
 (A) $a_n = 2 + 4n$ ● $a_n = 4n + 2$ (C) $a_n = 2n + 2$ (D) $a_n = 4n + 4$
7. Arithmetic mean b/w $\sqrt{7} + 3$ and $\sqrt{7} - 3$ is _____
 (A) 3 (B) -3 ● $\sqrt{7}$ (D) $-\sqrt{7}$
8. $(A \cup B) =$ _____
 (A) $A \cup B$ ● $A \cap B$ (C) $A \cup B$ (D) $A \cap B$
9. The line $y = 1$ is parallel to _____
 ● x-axis (B) y-axis (C) Both axis (D) None of these
10. If 'f' is a function from A to B, then 'f' is onto function if _____
 (A) $\text{Dom } f = A$ (B) $\text{Range } f = A$ (C) $\text{Dom } f = B$ ● $\text{Range } f = B$
11. Most frequent value in data is called _____
 (A) Mean (B) Median ● Mode (D) Range
12. The coordinates of origin are _____
 ● (0,0) (B) (1,0) (C) (0,1) (D) (1,1)
13. For $y = 2$ in $4x - y = 6$, we have $x =$ _____
 (A) -2 (B) 2 (C) -4 (D) 4
14. Find the Range of the function $y = 2x$ for the domain $\{1, 2, 3\}$
 ● $\{2, 4, 6\}$ (B) $\{1, 4, 6\}$ (C) $\{2, 3, 4\}$ (D) $\{3, 6, 9\}$
15. The two coordinate axis intersect at an angle of _____
 (A) 30° (B) 60° ● 90° (D) 120°

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Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 36

II. Attempt any NINE Parts out of the following. Each Part carries equal marks.

- In a class of 70 students, 60% passed in Mathematics. How many students failed in the subject?
- Find the amount of Zakat payable on Jewellery worth Rs 135,000 and Cash of Rs 75,000
- Okasha bought a mobile for Rs 18,000 and sold it at a loss of 45%. How much loss did he suffer?
- Talha purchased a Camera for Rs 14980. After getting a discount of 8%. What was the market price?
- Sahil deposits Rs 350,000 at annual profit rate of 11% for some time. If his profit is Rs 154,000. For how many period his money remained in the bank?
- Simplify $\sqrt{\frac{q^m}{q^n}} \times \sqrt{\frac{q^n}{q^l}} \times \sqrt{\frac{q^l}{q^m}}$
- Find the value of "x" if $\log_3(5x + 1) = 2$.
- Express as a single logarithm. $\frac{1}{2} \log x - 2 \log 2y + 3 \log z$.
- Find a sequence in which $a_1=4$, $r=2$ and $n=6$.
- Insert two Geometric Mean between 3 and 648.
- The sale price of a sofa set is Rs 20,000. What will be the total cost if the sale tax is 7 %.
- Write the domain and Range of the following relation.
 $R_1 = \{(x,3), (y,1)\}$ $R_2 = \{(x,1), (x,2), (x,3)\}$

SECTION "C"

Marks: 24

Note: Attempt any THREE questions of the following. Each question carries equal Marks.

- 10 women can weave a carpet in 18 days by working 8 hours a day. In how many days will 1 women weave the same carpet if they work 5 hours daily?
- If $U = \{1,2,3,4,5,6,7\}$, $A = \{2,5,6\}$ and $B = \{1,2,3\}$ then draw venn diagram for:
i. $(A \cup B)'$ ii. $A' \cup B'$
- Find the missing coordinate in ordered pairs, which are the solutions to the following equation
i. $y = 8x - 4$, $(-1,)$, $(3,)$ ii. $3x + 6y = 18$, $(3,)$, $(-2,)$
- Find the Median of the following:

Daily wages (in Rs)	60-69	70-79	80-89	90-99	100-109
Labour	4	6	8	10	5