



**ZIAUDDIN EDUCATION BOARD KARACHI
MODEL QUESTION PAPER**

S.S.C. (ANNUAL) EXAMINATIONS

2021 for Class IX & 2022 for Class X & ONWARDS

GENERAL MATHEMATICS (CLASS IX)

Total Time: 2 Hours

(GENERAL GROUP)

Total Marks: 75

SECTION "A" MULTIPLE CHOICE QUESTIONS

NOTE: (i) Attempt all the questions of this section.

(ii) Do not copy down the questions, write only the answer against the proper number of the question and its part according to the question paper.

(iii) Each question carries TWO Marks.

Q.1 Choose the best answer from the given options: (36 Marks)

- i. $\sqrt{16} \times \sqrt{25} =$:
* 36 * 20 * 18 * 15
- ii. $x:6:: 10: 4$, the value of x will be :
* 8 * 10 * 15 * 12
- iii. The additive inverse of a+b is :
* a-b * b-a * -(a+b) * $1/a+b$
- iv. In base five system $9 = ()_5$
* 123 * 12 * 23 * 14
- v. Rate of Zakat is :
* 40% * 20% * 2.5% * 25%
- vi. Representation of statistical data classified from Row and Column is called
* frequency * Tabulation * Class interval * None of these
- vii. The order pair (0, -5) lies on:
* 1 st quadrant * 3 rd quadrant * Negative y-axis * Negative x-axis
- viii. In Decimal system $1023_5 =$:
* 138 * 128 * 123 * 148
- ix. $30 \times 3 - 1 \times 3 =$
* 0 * 1 * 27 * 9
- x. $5.7 \times 10^7 =$
* 57.0000 * 5.7000000 * 5.700000 * 57000000.0
- xi. $2(2y0)^2 =$
* 6 * 8 * 12 * $8y^2$
- xii. The order pair (-5, -5) lies on:

- | | * 1 st quadrant
quadrant | * 2 nd quadrant | * 3 rd quadrant | * 4 th |
|--------|---|--------------------------|------------------------|------------|
| xiii. | The common logarithm has the base_____. | | | |
| | *5 | * e | * 10 | * 0 |
| xiv. | If $\log_{10} 1000 = y$, then $y =$ _____. | | | |
| | * 10 | * 2 | * 3 | * 0 |
| xv. | {0, 1, 2, 3,} is the set of : | | | |
| | * Prime No. | * Integers | * Whole No. | * Even No. |
| xvi. | The set {1, 3, 5, 7,} is closed for: | | | |
| | * Addition | * Multiplication | * Subtraction | * Division |
| xvii. | In Tarka the share of widow is : | | | |
| | • 1/6 | *1/8 | *1 | *2 |
| xviii. | In the standard form $6874.321 =$ | | | |
| | * 6.874321×10^3 | * 68.74321×10^2 | * 687.4321×10 | *0.6874321 |

Important Instructions:

Note: This paper consisting Short Answer Questions (Section ‘B’) and Descriptive Answer Questions (Setion ‘C’) which is given after 30 minutes. Its duration is 2 ½ Hours only.



SECTION 'B' (SHORT ANSWER -QUESTIONS) (Marks: 25)

Note: Attempt any Five (05) questions from this section. All questions carry equal marks

Q2) Solve $342_5 \times 43_5$.

Q3) If $S = \{ \frac{1}{2}, -1, 0 \}$, find $S \times S$.

Q4) If $\log_{10} 2 = 0.3010$, $\log_{10} 3 = 0.4771$, $\log_{10} 5 = 0.6990$ then find the value of $\log_{10} 30$.

Q5) 400 persons had a food stock for 6 days .How many persons should leave so that the same food is sufficient for 8 days?

Q6) A person paid Rs 5650 as Zakat in a year. Find his savings for the year?

Q7) Solve the following: $1101_2 + 101_2 - 1001_2$

Q8)The members of the cricket team of a school made 18,12,0,25,20,15,11,10,25,12,7 runs respectively. Find the median of there runs.

Q9)Three man have a total amount of Rs. 630. If each of them gives Rs. 10 in charity then the ratio between there amount will be 3:4:5. Find the amount of each man?

Q10) Find $A \times B$ if $A = \{0, 1\}$ and $B = \{1, 2, 3\}$



SECTION 'C' (DESCRIPTIVE ANSWER-QUESTIONS) (Marks: 14)

Note: Attempt any Two (02) questions from this section. All questions carry equal marks

Q11) A man left behind him an inheritance (Tarka) worth Rs 30,000. Distribute the tarka among his four sons and three daughters such that each son gets twice as much as a daughter. The deceased dies leaving behind him a debt of Rs 8000.

Q12) Find the solution set of the equations: $x+y= 4$, $2x -y = 5$

Q13) Measure of the sizes(in decimeters) of 100 scouts are given below. Find the A.M of there sizes

Measure of sizes	8 -10	10-12	12-14	14-16	16-18
No. of scouts	5	18	42	27	8

