



Dr. A. Q. Khan School & College, Bahria Town Phase-8, Islamabad
MODEL PAPER MATHEMATICS CLASS VI

Date: _____	Maximum Marks: 60
Name: _____	Obtained Marks: _____
Section: _____	Time Allowed: 20 Minutes
Invigilator's Signature: _____	

Section-A (12 Marks)

Q. No 1: Fill the relevant bubble against each question according to curriculum. (12)

No	Question	A	B	C	D	A	B	C	D
i.	A number which divides a given number completely, leaving no remainder is called?	Factor	Multiple	HCF	LCM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ii.	The numbers which have only two different factors are called?	Even Numbers	Odd Numbers	Prime Numbers	Composite Numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iii.	What is the intersection of the sets {1, 2, 3, 4} and {3, 4, 5, 6}?	{1,2}	{3,4}	{5,6}	{1,2,5,6}	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iv.	Temperature of Lunar day is 120°C and temperature of lunar night is -160°C then the difference in temperatures will be?	280°C	-40°C	-280°C	40°C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
v.	-1000 _____ 0	\geq	\leq	$<$	$>$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vi.	Out of Rs.2000, 40% is spent. The expenditure amount is?	800	1200	80	120	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
vii.	One dozen eggs are bought for Rs.120, then the cost of one egg is:	12	10	20	15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
viii.	_____ is a subset of every set.	Infinite Set	Finite Set	Singleton Set	\emptyset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ix.		4	7	1	0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
x.	If $\frac{3}{2}x - 7 = 20$ then the value of x is?	54	18	27	7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xi.	Which one is not a simple linear equation?	$7x+y=9$	$5y+3=0$	$4+3t=5$	$6z=11$	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
xii.	A letter used to denote an unknown number is?	Expression	Exponent	Constant	Variable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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Time Allowed: 2:40 Hrs.

Section B,C Total Marks: 48

Section-B (30 Marks)

Q. 2 Solve the following Questions:

(10 × 3 = 30)


i.	Is 6 a factor of 432? Give reason.	03	OR	Find LCM of the given numbers by taking multiples 12,14	03												
ii.	Find HCF of 63 and 84 by long division.	03	OR	Find LCM by prime factorization: 18,24,36	03												
iii.	Add the following on number line. -5 and -3	03	OR	The Temperature was 11 degrees below freezing point, it rose 9 degrees. What was the new temperature?	03												
iv.	Verify the distributive law $12 \times (15 + 9) = (12 \times 15) + (12 \times 9)$	03	OR	Re-write the following in answer sheet but with appropriate numeral in the box. a) $-12 \times \square = 60$ b) $\square \div (-13) = 3$ c) $210 \div 15 = \square$	03												
v.	In a quiz Program Arooba answered 63 questions out of 75. What percent of the questions were answered?	03	OR	In a basket out of 150 oranges 15 are eaten. What percentage has been eaten? What percentage is left?	1.5 + 1.5												
vi.	In a club of 50 students, there are 30 boys. a) How many girls are there in the club? b) What is the ratio of boys to girls? c) What is the ratio of boys to total?	01 + 01 + 01	OR	If $x : y = 5 : 7$ and $y : z = 6 : 8$ a) Find $x : y : z$ b) Find $x : z$	1.5 + 1.5												
vii.	Write all possible subsets of the following: { $\circ, \square, \triangle$ }	03	OR	Let U= Colors of Rainbow A=Primary Colors Represent these sets through Venn Diagram.	03												
viii.	Which of the following statements are true? Explain your answer a) $\{2,4,6,8...100\} = \{2,4,6,8...\}$ b) $\{1,3,5,7\} = \{7,3,5,1\}$	1.5 + 1.5	OR	List the elements of the following sets: P={Prime numbers between 10 and 30}	03												
ix.	The freezing point of water is 0°C . Use $F = (1.8)^{\circ}\text{C} + 32$ to find the freezing point of water in Fahrenheit.	03	OR	Redraw and Complete the Table: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>x</th> <th>y</th> <th>$y - 3x + 1$</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td></td> </tr> <tr> <td>9</td> <td>8</td> <td></td> </tr> <tr> <td>10</td> <td>10</td> <td></td> </tr> </tbody> </table>	x	y	$y - 3x + 1$	2	1		9	8		10	10		03
x	y	$y - 3x + 1$															
2	1																
9	8																
10	10																

x.	Follow the pattern to complete and redraw the grid on answer sheet:			03	OR	Simplify: [2x+(3x-5y+7z)]-2(5x-3z)	03
	3						
			17				
	23	25					

Section-C (18 Marks)

Solve the following Questions:

(6 × 3 = 18)

Q.3	a) Find prime factors of 256.	03 + 03	OR	a) Find the highest common factor of 56 and 84.	03 + 03
	b) Find the net charge of 2 positively charged particles and 8 negatively charged particles.			b) Find $34 + 15 + (-13)$	
Q.4	a) Find $x : y : z$ and $x : z$ if $x : y = \frac{2}{3} : 1$ and $y : z = \frac{3}{4} : \frac{1}{2}$	03 + 03	OR	a) Divide 600 in the ratio 2:3:7, what will be the largest and the smallest share?	03 + 03
	b) Represent the following sets through Venn diagram U = {0, 1, 2, ..., 10} A = {0, 2, 4, 6, 8} B = {1, 2, 3, 4, 6, 7, 9}			b) Write three proper subsets of the set {m, n, o}	
Q.5	a) Simplify the following algebraic expressions : $(4p - 3q) - 5 [(2p - q) + (p + q)]$	02 + 04	OR	a) Sohail's father's age is 7 years more than 4 times the Sohail's age. What is the age of Sohail's father?	04 + 01 + 01
	b) Alia has 35Mbs internet data. She used 40% data during first 15 days. Find the amount of data in Mbs used by her.			b)  a meter (a+b) meter Find Area and Perimeter of the given rectangle.	