بال میں موبائل فون لانا

2	3	4	7	2	6

GENERAL MATHEMATICS
Grade IX
Model Paper

Total Time: 3hrs   Total Marks:75

Signature of Supdt.

Time: 20min   **"SECTION – A"**   Marks: 15

NOTE: **Use Black/Blue marker for shading only one bubble for each question. No mark will be awarded for Cutting, erasing, overwriting, and multiple bubble shading.**

Q. 1   **Choose the correct option i.e. A,B,C, and D.**

i. Percentage of 2/5 is……………………..
   (A) 30   (B) 40   (C) 50   (D) 70

ii. Decimal fraction of 60% is…………………….
   (A) 0.3   (B) 0.10   (C) 0.60   (D) 0.50

iii. Ration between 9 kilograms and 18 grams in simplest form is…………………………
   (A) 1:2   (B) 500:1   (C) 50:1   (D) 1:3

iv. In 2:x::x:18, x is called…………………………
   (A) Extreme   (B) Mean proportional   (C) 3rd proportional   (D) Fourth proportional

v. Nisab of Gold for payment of Zakat is……………………
   (A) 7.5 gm   (B) 87 gm   (C) 52 gm   (D) 609 gm

vi. Right of inheritance is established…………………………
   (A) After the death of a person   (B) In accordance with the will   (C) After payment of debts of deceased   (D) After the burial process

vii. Cost price Rs. 390, Loss is 2.5%. Selling price is……………………..
   (A) Rs. 387.50   (B) Rs. 380.25   (C) Rs. 382.50   (D) Rs. 381.25

viii. Vehicle insurance is for
   (A) Protection of Driver   (B) Protection of car   (C) Protection of life   (D) Protection of wife

ix. Gross income is the income of ……………
   (A) A week   (B) A month   (C) A year   (D) A day

x. Characteristic of log 23.557 is………………….
   (A) 3   (B) 0   (C) 2   (D) 1

xi. The general term of the sequence -1,1,-1,1, is…………..
   (A) $(-1)^{n+1}$ (B) $(-1)^{n^2}$ (C) -n   (D) $(-1)^n$

xii. If A has 2 elements and B has 3 elements, then number of binary relations in A×B are……………………
   (A) 2×3   (B) 2^3 (C) 2^6 (D) 2^2

xiii. The point (3,4) is located in………………………
   (A) Quadrant I   (B) Quadrant II   (C) Quadrant III   (D) Quadrant IV

xiv. The difference of the largest and smallest value in the data is called……………………..
   (A) Mean   (B) Mode   (C) Range   (D) Standard deviation

xv. The most frequent value in the data is called its…………………..
   (A) Mean   (B) Median   (C) Mode   (D) G.M

Time Allowed: 2:40 Hrs   Section – B & C   Total Marks: 60

"Section – B"   Marks: 36

Q. 2   **Solve any Nine of the following parts. Each part carries equal marks.**

(i)   In a class of 50 students, 80% passed in mathematics. How many students failed in the subject?

(ii)   In what ratio 75 be decreased to become 17.5?

(iii)   Abid paid Rs. 4925 as Zakat. Find his savings.

(iv)   Convert US $ 100 into PKRs.   (Hint: $1= Rs. 104.85)

(v)   Find anti-logarithm of 2.540

(vi)   Find 10th term of an A.P 18, 15, 12, 9, …

(vii)   Find A.M between 7 and 5.

(viii) If A= {a,b,c,d}, B={a,b} and C={a,c,d} then, verify associative property of intersection.

(ix)   Find the median of the values 3, 4, 6, 8, 11

(x)   Plot the points associated with the ordered pairs (7,3), (-5,6), (0,6) and (-3,-4)

(xi)   Determine the x and y coordinates of (-3,4)

(xii)   Find the selling price, when Cost price= Rs.250 and profit % = 5%

"Section – C" (From Last Three Chapters)

Marks: 24

NOTE: **Attempt any three questions. Each question carries equal marks.**

Q. 3   If A= {1, 2, 3} and B={x, y, z, p} then write three functions from A to B such that two of them are 1-1 as well as onto.

Q. 4   Solve the simultaneous equation 2x+y=3 and x-y=0 by using graphical method.

Q. 5   Find the median for the following data

Marks	1	4	5	7	9	10
No. of Students	5	7	10	3	3	2

Q. 6   Find Variance and Standard Deviation for the following data

No. of defective bulbs	0-------2	2-------4	4-------6	6-------8	8-------10
No. of packs (f)	1	3	15	10	2