QUAID E AZAM PUBLIC COLLEGE

Annual Examination March, 2014

Class: 6th | Time: 2:30Hours

Subject: Maths | Max Marks: 80

Name: _____ **SUBJECTIVE TYPE** Roll No: _____

SECTION I

Short Questions

Note: Attempt twenty five short questions. **2×25=50**

1. Write three consecutive whole number starting from 509.
2. Draw the whole numbers. > 23 but ≤ 34
3. Find the sum of first five whole numbers.
4. Find the difference between the largest three-digit whole number and the smallest four digit whole number.
5. Fill in the boxes with the help of commutative and associative laws.
   (5+□) +□ = □ +(10 + 15)
6. 11 +□ = 13+ □ Fill in the boxes.
7. Solve 1985 ÷135
8. Fill in the boxes. 9×(□ +4) =□×5 + □ × □
9. Express the following in fractions and decimals. 78 %
10. Convert the following into percentage. 0.25
11. Express the following into percentage.
    90 meters out of 150 meters.
12. Define percentage.
13. Define discount.
14. Find the following percentage. 64 % of 25
15. Express the following in decimal. 16 marks out of 25 marks
16. Find the following percentage. 18.5 % of 2000
17. Replace the unknowns by the number to make the statement true. $\frac{2}{3}\,m = \frac{14}{13}$
18. Define constant.
19. Define like terms.
20. Define algebraic expression.
21. Write the following in exponential form. $pq.pq.pq$
22. Simplify $x + y + z + 2x + z$
23. Simplify $p + 2q + q + r + 2p$
24. Simplify. $(2p + q + 2r) - (p + q + r)$
25. Add the following. $2x^2y$, xy^2 , x^2y
26. Solve the following equation. $3a - 3 = 0$
27. Solve the equation. $2 + 5x = x$
28. Solve the equation. $2x + 2 = 14$
29. Define whole numbers.
30. Draw the number line to represent the whole numbers ≥ 6 but ≤ 15
31. Find the following percentage. 50 % of 180

P.T.O

32. Write the coefficient , base and exponent of the following $\frac{1}{3}y^{-2}$

33. Write into algebraic expression. Half of x multiplied by the difference of n and m (m is less than n)

34. Ifra has 2p chocolates. She bought q more chocolates. How many chocolates she has now?

35. Find the area of square whose length of side is 7 cm.

36. Find the area of rectangle whose length =6 cm , Breadth =4 cm.

37. Find the perimeter of square whose length of side =4.5 cm

SECTION II
Long Questions

Note : Attempt any three questions. (3 x 10 = 30)

Q .1 a) Prove and identify the law used in the following. (5)

$$123 + (231 + 321) = (123 + 231) + 321$$

b) Prove and identify the law used in the following. (5)

$$10 \times (5 - 7) = (10 \times 5) - (10 \times 7)$$

Q2. a) Saeed has Rs. 75. He gives 20 % of it as alms. What remains with him? (5)

b) 85 % of the students in a school of 300 students passed an annual examination. How many of them are failed? (5)

Q3. a) Find the sum of following algebraic expressions.

$a^2 + 2ab + b^2$; $a^2 - 2ab + b^2$; $a^2 - ab - b^2$ (5)

b) Subtract $3x^5 + 4x^4 - 8x^3 - 6$ $from$ $8x^5 + 5x^4 - 3x^3 + 2$ (5)

Q4. Solve the following equations and verify the solution.

i. $2m - 5 = \frac{1}{2} + \frac{5}{2}$ (5)

ii. $\frac{a}{2} + \frac{a}{2} = 3a + 14$ (5)

Q7. Find the area and perimeter of the following figures. (5+5)

7.3 cm

7.6 cm

3.8 cm

The End