

QUAID E AZAM PUBLIC COLLEGE
Annual Examination March 2014

Class: 7th Section: _____ Date: _____ Time: 2 Hour 30 min
Subject: Mathematics **SUBJECTIVE TYPE** Max marks: 80
Name: _____ Roll No: _____

SECTION I

Note: Attempt any 25 questions from section I and each short question carries 2 marks .

Q.2 Attempt any 25 short questions. (25×2=50)

1. Define property tax.
2. Define zakat.
3. Add the terms to write an algebraic expression. $p^2, -q^2, -r^2$
4. If $A = x - 2y + z$, $B = -2x + y + z$ then find $A - B$.
5. Multiply. $-4ab$ and $-2bc$
6. Simplify. $4P(P + q)$
7. Multiply. $(m + 2)(m - 2)$
8. By using identity, find the square of the following binomial $3a + 4$
9. Find the product of the following binomial by using identity. $(3a - 8)(3a + 8)$
10. Define "Binomial".
11. Resolve into factors. $5x^2y - 10xy^2$
12. Resolve into factors. $x^2yz + xy^2z + xyz^2$.
13. Simplify the following binomial by using the identity. $(a + 5)(a + 3)$
14. Simplify the following binomial by using the identity. $(b + 6)(b + 9)$
15. Add the following polynomials. $x^2 + 2xy + y^2$, $x^2 - 2xy + y^2$
16. Factorize by using identity. $4a^2 - 25$
17. What is linear equation?
18. What is meant by the solution of an equation?
19. Solve the following equation. $\frac{1}{8}x = 4$
20. Solve the following equation. $2x - 6 = 0$
21. Solve the following equation. $\frac{5x}{2} = 10$
22. Find the solution of the following equation. $5x - 3 = 3x - 5$
23. Solve the following equation. $\frac{x-5}{4} = 7$
24. Define "Supplementary Angles".
25. Identify the pair of following angles. $50^\circ, 40^\circ$
26. Define "chord".
27. What rate of zakat has islam fixed?
28. Identify binomial and trinomial. (i) $l - m$ (ii) $2a - 3b - 4c$
29. Simplify. $a(a + b - c)$
30. By using identity, find the square of the following binomial. $3x - 2y$
31. Factorize the following identity. $(a - b)^2 - c^2$
32. Identify the pair of following angles. $120^\circ, 60^\circ$

33. Construct the following angle. 60°
 34. Construct the following angle. 120°
 35. Construct the following angle. 45°
 36. Factorize by using identity. $7x^2 - 7y^2$
 37. Solve the following equation. $\frac{x}{3} - 7 = 2$

Section II (3×10 = 30)

Note: Attempt any three questions and each question carries 10 marks.

Q. 3 (a) Find the property tax on a property of worth Rs. 948,000 at the rate of 1.5 %. (5)

(b) Saleem earned Rs. 114,700 from a rice crop and paid Ushr at the rate of 5 %. What amount did he pay as Ushr. (5)

Q.4 (a) Simplify. $(x^2 + y^2)(3x + 2y) + xy(x - 3y)$ (5)

(b) Resolve into factors by using identity. $44a^4 - 44a^3b + 11a^2b^2$

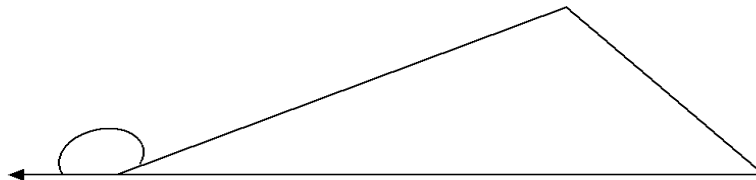
Q. 5 (a) Factorize the following expression. $x^2 + 5x - 2x - 10$ (5)

(b) Find the solution of the equation . $\frac{x+3}{2} = \frac{x+6}{3}$ (5)

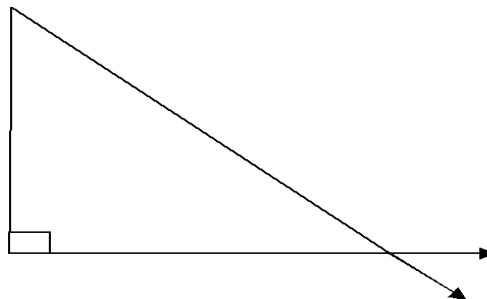
Q.6 (a) Distribute an amount of Rs. 200 between Raheem and Usman such that Raheem gets Rs. 50 more than twice as much as Usman gets. (5)

(b) The length of a marriage hall is 4 times as much its breadth. If the perimeter of the hall is 240m , find the length and breadth of the marriage hall. (5)

Q.7 (a) Find the unknown angles of the given triangle. (5)



(b) Find the remaining angles in the given right angles triangle. (5)



THE END