DROP OUT ROUND/FIRST ROUND

TOTAL MARKS: 100   **TIME DURATION: 30 MINUTES**

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STUDENT CODE: PAK-055-ELQ-CATSO-E5555

CLASS/GRADE: 1   **CATEGORY: MEGA MATH**

SCHOOL/INSTITUTION NAME: BEACONHOUSE SCHOOL SYSTEM

ADDRESS: VALENCIA TOWN CAMPUS, LAHORE PAKISTAN

IMPORTANT INSTRUCTIONS FOR QUIZ

➢ **This question paper contains 20 MCQS. Each question carries 5 marks.**

➢ **All questions are compulsory.**

➢ **5 marks will be deducted for a wrong and unattempt question.**

➢ **Over writing is not allowed.**

➢ **Kindly circle ◯ only one correct answer.**

➢ **Use only blue pen/pencil to answer the question.**

➢ **Go through your question paper before submission.**

➢ **Don't open this questionnaire until you are instructed by your invigilator**

1. **The set of all first elements of ordered pairs in a relation is called:**

   a) Range   **b) Domain**   c) Co-domain   d) Function

2. **A function in which every element of the domain has a unique image is called:**

   a) Relation   **b) Function**   c) Mapping   d) Equation

3. **A polynomial of degree 2 is called:**

   a) Linear polynomial   **b) Quadratic polynomial**   c) Cubic polynomial   d) Bi-quadratic polynomial

4. **The highest power of the variable in a polynomial is called:**

   a) Coefficient   b) Constant term   **c) Degree**   d) Factor

5. **The value of a variable that makes an equation true is called:**

   a) Expression   **b) Root**   c) Factor   d) Term

6. **The line which divides a line segment into two equal parts at 90° is called:**

   a) Median   b) Altitude   **c) Perpendicular bisector**   d) Tangent

7. **The sum of the interior angles of a polygon with n sides is given by:**

   a) $180 \times n$ b) $90 \times (n - 2)$ **c) $180 \times (n - 2)$**   d) $360 \times n$

8. **A polygon with all sides equal and all angles equal is called:**

   a) Irregular polygon   **b) Regular polygon**   c) Rhombus   d) Quadrilateral

9. **A line that touches a circle at exactly one point is called:**

   a) Chord   b) Diameter   **c) Tangent**   d) Secant

10. **A line that cuts a circle at two points is called:**

    a) Tangent   b) Radius   **c) Secant**   d) Diameter

11. **The ratio of the circumference of a circle to its diameter is always:**

    a) 2   b) 3   **c) π**   d) 22

12. **A triangle in which all three sides are unequal is called:**

    a) Equilateral   b) Isosceles   **c) Scalene**   d) Right

13. **The perpendicular drawn from the vertex of a triangle to the opposite side is called:**

    a) Median   **b) Altitude**   c) Bisector   d) Radius

14. **The line joining the midpoints of two sides of a triangle is called:**

    a) Altitude   b) Angle bisector   **c) Mid-segment**   d) Radius

15. **The probability of an impossible event is always:**

    a) 1   **b) 0**   c) ½   d) Undefined

16. **The probability of a sure event is always:**

    a) 0   b) ½   **c) 1**   d) Cannot be found

17. **The distance of a point from the origin (0,0) is given by:**

    a) $x + y$ b) $x^2 + y^2$ **c) $\sqrt{(x^2 + y^2)}$**   d) $x - y$

18. **A solid with one curved surface and two circular bases is called:**

    a) Cone   b) Sphere   **c) Cylinder**   d) Pyramid

19. **A solid with one curved surface, one circular base, and one vertex is called:**

    a) Sphere   b) Cylinder   **c) Cone**   d) Cube

20. **A solid with 6 equal square faces is called:**

    a) Cuboid   b) Prism   **c) Cube**   d) Pyramid