## Entrance test 8th Class 2025

## Paper: Mathematics

Note: All questions are compulsory. Calculators are not allowed. Write down formula where necessary and solve questions step by step.

All questions carry equal marks.

- Q No. 1 (a): Subtract  $2x^6+3x^2+2$  from the sum of  $3x^6-3x^2+5x$  and  $x^4-2x^3+3x-5$  (b): Simplify  $x^2+8x+16$
- Q No. 2 (a): A 96cm long wire is given the shape of a rectangle such that its length is 12cm more than the breadth .Find the length and breadth of the rectangle.
  - **(b):** Find the solution of the following  $\frac{x+6}{2} = \frac{x+4}{3}$
- Q No. 3 (a): After 42 years from now, a Cadet will be 5 times as old as he was 8 years back. How old is the boy now.
  - (b): The radius of circle is 14.3cm.find the area of the circle.
- Q No. 4 (a): When  $\frac{22}{7}$  is irrational why 96 is rational number?
  - (b): Find the power set if  $A=\{2,4,6\}$
- Q No. 5 (a): Ali sold a car for rupees 1125000 and got 10% profit. find the cost price of car.
  - **(b):** If  $U=\{1,2,3...10\}$  and  $B=\{1,3,7,9\}$  find  $B^c$
- Q No. 6 (a): Find the square root of 585225 by division method.
  - (b): If A=N,B=W then Find AUB and BUA, where N is the Natural and W is the whole Number.
- Q No. 7 (a): The length of the minute hand of a clock is 3.5 cm. Find the distance covered by the pointer of a minute hand in 3 hours.
  - **(b):** Simplify  $(a^5-b^5) \div (a-b)$