

CADET COLLEGE KALLAR KAHAR
ENTRANCE TEST FOR CLASS 8TH – 2018 ENTRY
PAPER MATHEMATICS

Note: All Questions are compulsory. Use of calculator is not allowed. All questions carry equal marks.

- Q1 a After 32 years from now a boy will be 5 times as old as he was 8 years back. How old is the boy now?
- b Subtract $2x^6 + 3x^3 - 2$ from the sum of $3x^6 - 3x^2 + 5x$ and $x^4 - 2x^3 + 3x - 5$
- Q2 a Find the boundary of square field whose area is 784m^2
- b Find $a^3 + b^3$ if $a + b = 3$ and $ab = 2$
- Q3 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 rectangle.
- b When $\frac{22}{7}$ is irrational why $\frac{11}{3}$ is rational?
- Q4 a Height of an oil drum is 250cm its radius is 70cm. Find the volume and capacity of cylinder in litre.
- b Simply $(x^5 - y^5) \div (x - y)$
- Q5 a Find square root of 180.9025 by division method.
- b The radius of circle is 4.7cm. Find its circumference.
- Q6 a 1225 students stand in rows in such a way that the number of rows is equal to number of students in a row. How many students are there in each row?
- b Find power set . If $A = \{+, \div, -\}$
- Q7 a A ladder 25ft long is placed against a wall. If its upper end reaches the height of 24ft along the wall, then find the distance of foot of the ladder from the wall.
- b Haris sold a bicycle for rupees 3978 and got 17% profit. Find the cost price of bicycle.