RAJHANS VIDYALAYA

ENTRANCE EXAM FOR STD-IX

Mathematics. Total-25

SECTION-A — 3×3 = 9.

(1) Solve: $\frac{7y+4}{y+2} = \frac{-4}{3}$

(2) Find the smallest number by which 9408 must be divided so that the quotient is a perfect square.

(3) Calculate the amount and Compound Interest on 18000 for $2\frac{1}{2}$ years at 10% per annum compounded annually.

SECTION-B. 4×4 = 16

(4) Find the area of a Rhombus whose side is 6cm and whose altitude is 4 cm.

(5) A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle.

(6) Factorise: (i) $x^4 - (x-z)^4$

(ii) $p^2 + 6p - 16$.

(7) The measures of two adjacent angles of a parallelogram are in the ratio 3:2. Find the measure of each of the angles of the parallelogram.

———xxx———