Exercise 3.2 for Class IX

Q1. Find the common logarithm of the following numbers:

i. 232.92

ii. 29.326

iii. 0.00032

iv. 0.3206

Q2. If log 31.09 = 1.4926, find the values of following:

i. log 3.109

ii. log 310.9

iii. log 0.003109

iv. log 0.3109

Q3. Find the numbers whose common logarithms are:

i. 3.5621

ii. $\overline{1}.7427$

Q4. What replacement for the unknown in each of following will make the statement true?

i. $\log_3 81 = L$

ii. $\log_a 6 = 0.5$

iii. $\log_5 n = 2$

iv. $10^p = 40$

Q5. Evaluate

i. $\log_2 \frac{1}{128}$

ii. $\log 512$ to the base $2\sqrt{2}$

Q6. Evaluate the value of 'x' from the following statements.

i. $\log_2 x = 5$

ii. $\log_{81} 9 = x$

iii. $\log_{64} 8 = \frac{x}{2}$

iv. $\log_x 64 = 2$

v. $\log_3 x = 4$