

VIVEK TUTORIALS

Mathematics

Unit Test

Max Marks: 20

Date : 01/Apr/2019

Grade: 8th (ICSE)
1 and 2

Time: 45Min

Question 1

(a) Compute:

(i) $(2^{-9} \div 2^{-11})^3$ (ii) $\left(\frac{2}{3}\right)^4 \times \left(\frac{27}{8}\right)^2$

(b) Evaluate:

(i) $\frac{5}{9} + \frac{-7}{6}$ (ii) $4 + \frac{3}{-5}$

(c) Simplify:

(i) $\sqrt[5]{x^{20}y^{-10}z^5} \div \frac{x^3}{y^3}$ (ii) $\left(\frac{256a^{16}}{81b^4}\right)^{-\frac{3}{4}}$

Question 2

(a) Evaluate:

(i) $\frac{-8}{9} + \frac{-5}{12}$ (ii) $0 + \frac{-2}{7}$

(b) Simplify:

(i) $(2x^2y^3)^{-2}$ (ii) $(27x^{-3}y^4)^{\frac{2}{3}}$

(c) Find $(m+n) \div (m-n)$, if:

(i) $m = \frac{2}{3}$ and $n = \frac{3}{2}$ (ii) $m = \frac{3}{4}$ and $n = \frac{4}{3}$

----- All the Best -----