

Name \_\_\_\_\_

# Dividing Exponents

Tick the correct option from the following.

- 1) Which of the following equals  $\frac{17^9}{17^5}$
- (i)  $1^4$        (ii)  $17^4$        (iii)  $17^{14}$
- 2) Which of the following equals  $\frac{12^{17}}{12^{10}}$
- (i)  $12^7$        (ii)  $24^7$        (iii)  $12^{17}$
- 3) Which of the following equals  $\frac{(-4)^{22}}{(-4)^{13}}$
- (i)  $4^9$        (ii)  $-4^7$        (iii)  $-4^9$
- 4) The value of  $x$ , if  $\frac{23^{17}}{23^x} = 23^7$
- (i) 10       (ii) 7       (iii) -10
- 5) The value of  $x$ , if  $\frac{15^{18}}{15^{-x}} = 15^{25}$
- (i) 7       (ii) -7       (iii) 8