



1. The population of a city is 50000. If the rate of increase in population is 5.00% per annum, what is the population after 2 year(s)?
(i) 55105 (ii) 55135 (iii) 55125 (iv) 55145 (v) 55115
2. The population of a city is 20000. If the rate of decrease in population is 3.00% per annum, what is the population after 1 year(s)?
(i) 19420 (ii) 19390 (iii) 19380 (iv) 19400 (v) 19410
3. The present value of a machine is ₹6000.00. Suppose it depreciates at the rate of 3.00% per annum, what is the value of the machine after 4 year(s)?
(i) ₹5312.76 (ii) ₹5311.76 (iii) ₹5310.76 (iv) ₹5313.76 (v) ₹5309.76
4. The present value of a machine is ₹9000.00. Suppose it depreciates at the rate of 5.00% per annum, what was the value of the machine 2 year(s) ago?
(i) ₹9973.30 (ii) ₹9971.30 (iii) ₹9970.30 (iv) ₹9972.30 (v) ₹9974.30
5. The population of a city is 50000. If the rate of increase in population is 8.00% per annum, what is the population after 3 year(s)?
(i) 62996 (ii) 62966 (iii) 63006 (iv) 62976 (v) 62986
6. The population of a city is 50000. If the rate of decrease in population is 5.00% per annum, what is the population after 4 year(s)?
(i) 40705 (ii) 40735 (iii) 40745 (iv) 40715 (v) 40725
7. The present value of a machine is ₹17000.00. Suppose it depreciates at the rate of 17.00% per annum, what is the value of the machine after 3 year(s)?
(i) ₹9722.38 (ii) ₹9720.38 (iii) ₹9718.38 (iv) ₹9721.38 (v) ₹9719.38
8. The present value of a machine is ₹14000.00. Suppose it depreciates at the rate of 15.00% per annum, what was the value of the machine 5 year(s) ago?
(i) ₹31553.47 (ii) ₹31550.47 (iii) ₹31554.47 (iv) ₹31552.47 (v) ₹31551.47
9. Let the present value of a machine be P. If it depreciates at the rate of r% per annum, the value of the machine after n years is
(i) $\frac{P}{[1-\frac{100}{r}]^n}$ (ii) $\frac{P}{[1-\frac{r}{100}]^n}$ (iii) $P[1-\frac{100}{r}]^n$ (iv) $P[1-\frac{r}{100}]^n$
10. Let the present value of a machine be P. If it depreciates at the rate of r% per annum, the value of the machine n years ago is
(i) $\frac{P}{[1-\frac{r}{100}]^n}$ (ii) $P[1-\frac{r}{100}]^n$ (iii) $\frac{P}{[1-\frac{100}{r}]^n}$ (iv) $P[1-\frac{100}{r}]^n$

Assignment Key

1) (iii)

2) (iv)

3) (ii)

4) (iv)

5) (v)

6) (v)

7) (ii)

8) (iv)

9) (iv)

10) (i)