

(b) If ends in a zero its cube ends in three zero. (T/F)

Ø. 9.3.

sector MP ¹ and the state of
(c) Discount % = $\frac{MP}{Discount} \times 100$ (T/F)
(d) If 12% of x is 60 then the value of x is 400. (T/F)
(e) $(-6/7)^\circ = 0$ (T/F)
Q.4. All questions are compulsory: 5×2=10
(a) The product of two rational numbers is $-\frac{28}{81}$. If one of
them is $\frac{14}{14}$.
(b) Find the value of the letters in the given pattern $+1B2$ (c) Subtract $2x^2 + 3y + 4$ from $14x^2 - 6y - 5$
(d) Twice a number when added to itself gives 25. Find the
number.
(e) Factorize: $(y^3 - 81y)$
Q.5. All questions are compulsory : 5×2=10
(a) A car is travelling at a speed 70 km/h. What should be the
distance travelled by the car in 24 minutes?
(b) Solve the following equation $\frac{y}{3} + 2 = \frac{y}{3}$
(c) Evaluate using the identities $96^2 - 4^2$
(d) If 45% of the workers of a factory are female and the
number of male workers is 396. Find the total number of
workers in the factory.
(e) Find two rational numbers between $-\frac{1}{5}$ and $\frac{1}{2}$.
$5\times3=15$
(a) Find the square root of number 9801 by long division
method. $(1)^2$
(b) If $\left(x + \frac{1}{x}\right)^2 = 81$, find the value of $x^2 + \frac{1}{x^2}$.
(c) Find the difference between the compound interest and
the simple interest for ₹ 8,000 for 3 years at the rate of
10% p.a.
(d) Solve the following equation : $\frac{x-5}{2} - \frac{x-3}{5} = \frac{1}{2}$
(e) Find the value $(2)^{17} (2) (2)^{2m+1}$
(e) Find the value of m : $\left(\frac{2}{7}\right)^{17} \div \left(\frac{2}{7}\right) = \left(\frac{2}{7}\right)^{2m+1}$
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