

CA Foundation – November 2019
Question Paper MCC, Jaipur. Based on Memory)

Marks 100

Time : 2 Hours

"BUSINESS MATHEMATICS"

1. The two numbers are in ratio 3 : 4. The difference between their squares is 28. Find the greater number.
 (a) 12 (b) 8
 (c) 16 (d) 10
2. If $\left[\frac{9^{x+1} \cdot \sqrt{3} \cdot 3^x}{3 \cdot \sqrt{3} \cdot 3^x} \right]^{\frac{1}{2}}$
 (a) 1 (b) 3
 (c) 9 (d) 27
3. If $x = \sqrt{3} + \frac{1}{\sqrt{3}}$ then $\left(x - \frac{\sqrt{126}}{\sqrt{42}}\right) \left(x - \frac{1}{x - \frac{2\sqrt{3}}{5}}\right) =$
 (a) $\frac{9}{5}$ (b) $\frac{6}{5}$
 (c) $\frac{11}{5}$ (d) $-\frac{3}{5}$
4. If $x = \frac{1}{5+2\sqrt{2}}$ then the value of the expression $x^2 - 10x + 1$ is
 (a) 0 (b) 10
 (c) $26 - 12\sqrt{2}$ (d) $\sqrt{15} + \sqrt{3}$
5. $\log_{10}(10,000) = x$; Find the value of x?
 (a) 1 (b) -2
 (c) -4 (d) 2
6. $\log xy^2 - \log y = \log (x+y)$ Find the value of y in term of x
 (a) $x-1$ (b) $\frac{x}{x+1}$
 (c) $\frac{x}{x-1}$ (d) $x+1$
7. Find the root of the equations. If $4^x \cdot 8^y = 128$ and $3^x/27^y = \frac{2}{3}$
 (a) 2, 1 (b) -2, 1
 (c) 2, -1 (d) 1, 2
8. The three roots of equation is. $x^3 + 9x^2 - x - 9 = 0$
 (a) 1, -1, -9 (b) 1, -1, 9
 (c) 1, 1, 9 (d) -1, -1, -9
9. Find the value of K so that x =2 is a root of the equation $3x^2 - 2kx + 5 = 0$
 (a) 17/4 (b) 4/17
 (c) -17/4 (d) -4/17
10. The solutions of the set of inequations $2x+y \geq 12, 5x+8y \geq 74, x+6y \geq 24, x \geq 0, y \geq 0$ are
 (a) $(24, 0), \left(\frac{126}{11}, \frac{22}{11}\right), (2, 8), (0, 12)$ (b) $(0, 24), (2, 8), (0, 12), \left(\frac{126}{11}, \frac{22}{11}\right)$
 (c) $(8, 4), (2, 8), (0, 12), (0, 24)$ (d) $(8, 4), (0, 0), (0, 6), (2, 0)$

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