

GSE 122 – BASIC GENERAL MATHEMATICS II

ASSESSMENT TEST Time Allowed: 45 minutes

Attempt All Questions

1. Which of the following is the expansion of $(A^2 + B^2)$?
(a) $(A + B) - 2AB$ (b) $(A + B)^2 - 2AB$ (c) $(A - B) - 2AB$ (d) $(A + B) - 2AB$
2. Solve for x and y respectively in the simultaneous equations: $x + 3y = 11$ and $x + y = 5$.
(a) 2 and 3 (b) 3 and 2 (c) - 2 and 3 (d) - 2 and - 3
3. Solve the quadratic equation, using any method of your choice: $x^2 - 6x - 16 = 0$
(a) - 8 or 2 (b) 2 or 8 (c) 16 or 1 (d) 8 or - 2
4. Evaluate $99^2 - 1$
(a) 98^2 (b) 980 (c) 908 (d) 9800
5. If x varies directly as the cube root of y, when $x = 3$, $y = 8$. Find the value of y, when $x = 1$.
(a) $2/3$ (b) $3/2$ (c) $8/27$ (d) $27/8$
6. The practice of paying return only on the principal is called
(a) Compound Interest (b) Sinking Fund (c) Annuity (d) Simple Interest
7. Mrs MoneyMissRoad borrows the sum of \$6000 at 20% per annum simple interest. Find the amount to be paid back at the end of 9months.
(a) \$900 (b) \$6300 (c) \$6900 (d) \$5100
8. If 16 students can finish a menial task in 15hours, how long would the same task take 5 students?
(a) 48hours (b) $5\frac{1}{3}$ hours (c) 45hours (d) 75hours
9. Given that $X : Y = P : Q$, then Y and P are best referred to as
(a) Ratio (b) Proportion (c) Means (d) Fractions
10. Mr FoodisReady deposited ₦500 in a bank that paid ₦650 in 6months. Calculate the simple interest rate of the return.
(a) 10% (b) 20% (c) 40% (d) 60%