

SHARJAH INDIAN SCHOOL, Br.Juwaiza
PERIODIC TEST - 3, NOV-2019

Grade: VIII -M

Subject: Mathematics

Time Allowed: 50 mnts

Day & Date: Sunday; 24/11/2019

Max. Marks: 25

Name of the student: Ruben Mammen V Roll No: 23 Signature of the invigilator: [Signature]

Choose the correct answer from the bracket:

1. Like term of $4m^3n^2$ is ----- (1)
($4m^2n^2$, $-6m^3n^2$, $6m^2n^3$, $4m^2n$)
2. Which of the following is a binomial? (1)
($7a + a$, $6a^2 + 7b + 2c$, $4a \times 3b$, $6(a^2+b)$)
3. Coefficient of y in the term $\frac{-y}{3}$ is ----- (1)
(-1 , -3 , $\frac{1}{3}$, $\frac{-1}{3}$)
4. VAT is calculated on ----- (1)
(Cost price, Selling price, Bill amount, Marked price)
5. Volume of a rectangular box (cuboid) of length $2ab$, breadth $3bc$ and height $2ac$ is ----- (1)
($12a^3b^2c$, $12a^2b^2c^2$, $7a^2b^2c^2$, $2ab + 3bc + 2ac$)

Do as Directed:

6. Find the discount and discount percent when marked price is Rs 1600 and sale price is Rs 1180. (2)
7. The value of a machine depreciates every year by 10%. What will be its value after two years if its present value is Rs 50,000? (2)
8. Hari bought a colour television set for Rs 48600 including a tax of 8%. Find the price of the television set before VAT was added. (2)
9. Simplify the algebraic expression by combining like terms and write the type of the algebraic expression. (2)
$$7ab^2c^2 + 8a^3b^2 - 3abc - 5ab^2c^2 - 2b^2a^3 + 2abc$$
10. An alloy contains 36% Zinc, 40% Copper and the rest is Nickel. Find in grams the quantity of Nickel in a sample of 1 kg alloy. (2)

11. Simplify $(3m - 2n)(4m + 3n)$ and find the value for $m = 2$ and $n = -3$ (3)
12. Subtract $3a(a + b + c) + -2b(a - b + c)$ from $4c(-a + b + c)$ (3)
13. Arun borrows Rs 30,000 at 15% per annum for 2 years at simple interest and Kiran borrows the same amount for the same time period at 10% per annum compounded annually. Who pays more interest and by how much? (4)