BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA
CLASS: VIII (2023-2024)
SUBJECT: MATHEMATICS (041)
CHAPTER: ALGEBRAIC EXPRESSIONS AND IDENTITIES
ASSIGNMENT
MCQ
Q. 1 If $x=3$ and $y=2$, then the value of $(x-y)\left(x^{2}+x y+y^{2}\right)$ is
a) 31
b) 19
c) 1
d) 25
Q. $2(x+5)(x-3)=$ ?
a) $x^{2}+5 x-15$
b) $x^{2}-3 x-15$
c) $x^{2}+2 x+15$
d) $x^{2}+2 x-15$
Q. $3 \frac{(7.95 \times 7.95)-(2.05 \times 2.05)}{(7.95-2.05)}=$
a) 7.95
b) 5
c) 10
d) 8

Assertion Reasoning
Q. 4 Assertion (A) -The coefficient in the term 20xyz is 20

Reasons (R) -A coefficient is a number multiplied by a variable
a) Both $A$ and $R$ are true and $R$ is the correct explanation of $A$
b) Both $A$ and $R$ are true but $R$ is not the correct explanation of $A$
c) A is true but R is false
d) $A$ is false but $R$ is true

Subjective Questions
Q. 5 If $x+y=15, x y=16$, find the value of $x^{2}+y^{2}$.
Q. 6 Evaluate by using suitable identity ( $8.3 \times 7.7$ )
Q. 7 Find the product of $\left(x^{2}+1\right)(x-1)(x+1)\left(x^{4}+1\right)$
Q. 8 National Association for the Blind (NAB) aimed to empower and wellinform visually challenged population of our country, thus enabling them to lead a life of dignity and productivity. Raman donated Rs. $(x+y)$ to NAB. Total $\left(x^{2}-y^{2}\right)$ students donated Rs. $(x-y)$ each for the help of blind people. Based on the above information answer the following questions:
i) What is the total amount donated by all students?
ii) If Raman donated Rs. $(x+y)$ and Sohan donated Rs. $(3 x-4 y)$, then what is the total amount donated by them?
iii) If $x=$ Rs. 5 and $y=$ Rs. -3 , then what is the total amount donated by all students?

