GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

SESSION : 2020-2021

CLASS- 8 (A,B,C,D,E)

SUBJECT- MATHEMATICS

Assignment: 02

TOPIC – ALGEBRAIC EXPRESSIONS

Instructions for the E-learn assignment:

(I) The Parents to ensure that their ward watches the video instructions for this assignment by clicking on the given link: https://youtu.be/DQ70_-wjbgY, she should revise the lesson given in the book and then work on the assignment.

(II) The completed assignment is to be downloaded and filed/pasted in the subject file/copy and kept ready for submission.

(III) The day, date and procedure of submission shall be notified later.

Solve the following:-

Q.1 Multiply:

i. $8ab^2$ by $-4a^3b^4$

ii. $-\frac{2}{3}a^7b^2$ and $-\frac{9}{4}ab^5$

Q.2 Multiply:

i. $2a^3 - 3a^2b$ and $-\frac{1}{2}ab^2$

ii. $3-\frac{2}{3}xy + \frac{5}{7}xy^2 - \frac{16}{21}x^2y$ by $-21x^2y^2$

Q.3 Multiply:

i. $6x^3 - 5x + 10$ by $4 - 3x^2$

ii. $(5a + 5b - c)(2b - 3c)$

Q.4 Find:

The base and the altitude of a triangle are $(3x - 4y)$ and $(6x + 5y)$ respectively. Find its area.

Q.5 (a) Solve:

i. Multiply $-4xy^3$ and $6x^2y$ and verify your result for $x = 2$ and $y = 1$.

(b) Evaluate:

i. $(3x - 2)(x + 5)$ for $x = 2$.

ii. $(2x - 5y)(2x + 3y)$ for $x = 2$ and $y = 3$

Q.6 Divide:

i. $-70a^3$ by $14a^2$

ii. $15a^3b^4 - 10a^4b^3 - 25a^3b^6$ by $-5a^3b^2$

Q.8 Divide:

i. $a^2 + 7a + 12$ by $a + 4$

ii. $12x^2 + 7xy - 12y^2$ by $3x + 4y$

Q.9 Simplify:

i. $3a - b\{a-(1-a)\} - b(1-2a)$

ii. $2x - [y + \{y - (x + 2y)\}]$

iii. $3a[8b \div 4 - 6\{a - (5a - \overline{3b - 2a})\}]$

Q.10 Simplify:

i. $a^5 \div a^3 + 3a \times 2a$

ii. $x^5 \times x^7 \div x^4$

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