EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Algebraic Expressions

Grade : SSC Grade VII

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1. The value of the polynomial $(3u-9vw+3w)$ at $u=1, v=(-5), w=(-3)$ is

   (i) -141 (ii) -140 (iii) -142 (iv) -138 (v) -144

2. Which of the following algebraic expressions is a constant polynomial?

   (i) $(3v^3-7v^2-8v)$ (ii) (-5) (iii) $(-9v^3)$ (iv) $(-6v^4-8v^3)$ (v) $(v^4+8v^3+3v^2+7v-7)$

3. The value of $(-7uvw+2uw+6vw)+(-5uw-4v+8w)$ is

   (i) $(-7uvw-uw+6vw-4v+8w)$ (ii) $(-6uvw-3uw+6vw-4v+8w)$ (iii) $(-7uvw-3uw+6vw-4v+8w)$

   (iv) $(-7uvw-5uw+6vw-4v+8w)$ (v) $(-8uvw-3uw+6vw-4v+8w)$

4. Which of the following algebraic expressions is a monomial?

   (i) $(-3x^3y^3z)$ (ii) $(-3x^2+3yz)$ (iii) $(-3x^3y^3z^3-6x^2yz-2xy^3z^2)$ (iv) $(3x^3y^3z^2-4x^3yz^2+8y^2z^2+7y)$

   (v) $(7x^3y^3z^3-6x^2y^2-xy^2-8y^2z^2)$

5. The value of $\frac{3}{5}w^2+\frac{2}{3}w^2+\frac{2}{3}w^2$ is

   (i) $\frac{9}{5}w^2$ (ii) $\frac{31}{17}w^2$ (iii) $\frac{29}{15}w^2$ (iv) $\frac{27}{13}w^2$ (v) $\frac{31}{15}w^2$

6. Which of the following terms can be subtracted from $6lmk^2$?

   (i) kl^2m^2 (ii) $(-2k^2lm^2)$ (iii) $2klm$ (iv) $(-7k^2lm)$ (v) $8k^2l^2m^2$

7. The sum of the expressions $(-5n-1), (3n+9), (6n+9), (2n+5), (8n-7)$ is

   (i) $(14n+15)$ (ii) $(15n+15)$ (iii) $(14n+12)$ (iv) $(14n+18)$ (v) $(13n+15)$

8. The value of $\frac{4}{5}p+\frac{1}{2}p+\frac{1}{2}p+\frac{4}{5}p$ is

   (i) $\frac{13}{5}p$ (ii) $\frac{17}{7}p$ (iii) $\frac{11}{5}p$ (iv) $3p$

9. The value of $7l^2m^2n^2-(-4l^2m^2n^2)$ is

   (i) $10l^2m^2n^2$ (ii) $11l^2m^2n^2$ (iii) $13l^2m^2n^2$ (iv) $12l^2m^2n^2$ (v) $9l^2m^2n^2$

10. The value of $8ij-5ij$ is

    (i) $4ij$ (ii) $2ij$ (iii) $5ij$ (iv) $3ij$ (v) ij

11. The value of $(-4u^4+2u-1)+(7u^3-8u^2-u)+(5u^4+8u^3-5u^2)+(-3u^5-8u^3+8u^2)$ is

(i) $(-2u^5+u^4+7u^3-5u^2+u-1)$ (ii) $(-3u^5+u^4+7u^3-5u^2+u-1)$ (iii) $(-4u^5+u^4+7u^3-5u^2+u-1)$

(iv) $(-6u^5+u^4+7u^3-5u^2+u-1)$ (v) $(u^4+7u^3-5u^2+u-1)$

12. The value of $\frac{1}{2}r^5-\frac{1}{2}r^5-\frac{1}{2}r^5$ is

(i) $(-\frac{3}{2}r^5)$ (ii) $(-\frac{1}{2}r^5)$ (iii) $(-r^5)$ (iv) $\frac{1}{2}r^5$ (v) $(-\frac{1}{4}r^5)$

13. The value of the polynomial $(4kl^2m-7kl^2+2klm)$ at $k=(-5), l=(-2), m=5$ is

(i) -161 (ii) -163 (iii) -160 (iv) -158 (v) -159

14. The value of the polynomial $(-5y^4-2y^3+3y^2-6y-4)$ at $y=0$ is

(i) -4 (ii) -2 (iii) -7 (iv) -5 (v) -3

15. The value of $\frac{2}{3}b^3c^3d^3+\frac{1}{2}b^3c^3d^3+\frac{3}{4}b^3c^3d^3+\frac{2}{3}b^3c^3d^3$ is

(i) $\frac{11}{4}b^3c^3d^3$ (ii) $\frac{29}{12}b^3c^3d^3$ (iii) $\frac{5}{2}b^3c^3d^3$ (iv) $\frac{31}{12}b^3c^3d^3$ (v) $\frac{27}{10}b^3c^3d^3$

16. The value of the polynomial $(-4k^2l-4kl^2m+4)$ at $k=(-1), l=3, m=5$ is

(i) 171 (ii) 175 (iii) 170 (iv) 173 (v) 172

17. The sum of the terms $5a, (-8), 3, 5a, (-1)$ is

(i) $(10a-3)$ (ii) $(9a-6)$ (iii) $(10a-9)$ (iv) $(10a-6)$ (v) $(11a-6)$

18. The degree of polynomial $(-5a^2b-5a^2+5abc^2-b^2c^2+7c^2)$ is

(i) 4 (ii) 1 (iii) 3 (iv) 7 (v) 5

19. The sum of the expressions $(-7tu+3u), (-8u-9), (tu-5t), (5t-6u), (t+6)$ is

(i) $(-5tu+t-11u-3)$ (ii) $(-6tu-2t-11u-3)$ (iii) $(-7tu+t-11u-3)$ (iv) $(-6tu+t-11u-3)$

(v) $(-6tu+3t-11u-3)$

20. The value of $(-3f^5+4f^4-7)+(-3f^3+5f^2-3f)$ is

(i) $(-4f^5+4f^4-3f^3+5f^2-3f-7)$ (ii) $(-5f^5+4f^4-3f^3+5f^2-3f-7)$ (iii) $(-2f^5+4f^4-3f^3+5f^2-3f-7)$

(iv) $(-f^5+4f^4-3f^3+5f^2-3f-7)$ (v) $(-3f^5+4f^4-3f^3+5f^2-3f-7)$

21. Which of the following is a like term of $4c^2$?

(i) $(-4c^2e)$ (ii) $6c^2$ (iii) $(-5e)$ (iv) 1 (v) $(-8d)$

22. The coefficient of term $h^2 i^2 j^2$ in polynomial $(-6h^2 i^2 j^2 + 3h^2 i^2 j + 3h^2 i - 5hij^2 - 2ij)$ is

(i) -8 (ii) -7 (iii) -6 (iv) -3 (v) -5

23. Which of the following algebraic expressions is a trinomial?

(i) $(7u^3 vw^3 - 5u^2 v^3 - 8uvw^3 + 6uw)$ (ii) $6u^3 v^3 w$ (iii) $(8u^2 v^2 w^2 + 6u)$

(iv) $(7u^3 v^3 w^3 - 7u^3 v^3 - 3uvw^2 - 2uvw)$ (v) $(2u^2 v^2 w + 6uv^2 w^2 - 8uw^3)$

24. The value of $\frac{1}{2}w^4 + \frac{1}{2}w^4 + \frac{1}{2}w^4 + \frac{1}{2}w^4$ is

(i) $4w^4$ (ii) 0 (iii) w^4 (iv) $3w^4$ (v) $2w^4$

25. Which of the following terms can be subtracted from $(-8s^3)$?

(i) $(-s^3)$ (ii) 4 (iii) $(-7s^2)$ (iv) $3s$ (v) $6s^4$

Assignment Key

1) (i)	2) (ii)	3) (iii)	4) (i)	5) (iii)	6) (iv)
7) (i)	8) (i)	9) (ii)	10) (iv)	11) (ii)	12) (ii)
13) (iii)	14) (i)	15) (iv)	16) (v)	17) (iv)	18) (i)
19) (iv)	20) (v)	21) (ii)	22) (iii)	23) (v)	24) (v)
25) (i)					