



1. The value of the polynomial  $(7kl - 4lm - 9)$  at  $k=1, l=3, m=3$  is

- (i) -24 (ii) -26 (iii) -22 (iv) -23 (v) -25

2. The value of the polynomial  $(-2r^2s^2t)$  at  $r=4, s=4, t=2$  is

- (i) -1025 (ii) -1024 (iii) -1022 (iv) -1026 (v) -1023

3. The degree of polynomial  $(2op - 5o + 13p + 3)$  is

- (i) (-1) (ii) 5 (iii) 1 (iv) 2 (v) 3

4. The expanded form of  $(\frac{1}{4}mn)^3$  is

- (i)  $\frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn$  (ii)  $\frac{1}{4}mn \times \frac{1}{4}mn$  (iii)  $\frac{1}{4}mn$  (iv)  $\frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn$

- (v)  $\frac{1}{4}mn \times \frac{1}{4}mn \times \frac{1}{4}mn$

5. The value of the polynomial  $(8s + 5tu)$  at  $s=(-5), t=3, u=1$  is

- (i) -25 (ii) -27 (iii) -24 (iv) -23 (v) -26

6. Which of the following algebraic expressions is a binomial?

- (i)  $(8u^3v^3w - 5v^2w^2)$  (ii)  $(3u^2v^3w^3 - 3u^2v^3 + 9uv^2w^2 + 4v^3w^2)$  (iii)  $(-2u^3vw - 7u^3 + 2uvw + 3v^3)$

- (iv)  $(-5uvw^3)$  (v)  $(4u^3vw + 9u^2w + 5uv^2w^3)$

7. The degree of the polynomial  $(-5u - 2)$  is

- (i) 1 (ii) 2 (iii) (-2) (iv) 4 (v) 0

8. Which of the following are not polynomials?

a)  $(6x - 12y)$

b)  $\frac{(6x+11y)}{(6x-12y)}$

c)  $\sqrt{x}$

d)  $(36x^2 - 6xy - 132y^2)$

e)  $121x^2$

- (i) {d,c} (ii) {a,b} (iii) {b,c} (iv) {d,c,b} (v) {e,a,b}

9. The value of the polynomial 4 at  $m=3, n=(-1), o=(-3)$  is

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

10. Which of the following terms is a like term of  $7p^3$  ?

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

11. The expanded form of  $(4h)^3$  is

- (i)  $4h$  (ii)  $4h \times 4h \times 4h \times 4h$  (iii)  $4h \times 4h$  (iv)  $4h \times 4h \times 4h \times 4h \times 4h$  (v)  $4h \times 4h \times 4h$

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

- (i)  $(-d^4 + 3d^2)$  (ii)  $(9d^4 - 3d^3 - 7d^2 + 5d + 1)$  (iii)  $(7d^3 - 4d^2 - 9d)$  (iv)  $(-5d)$   
(v)  $(-7d^4 + 7d^3 - 5d^2 - d - 3)$

13. The value of the polynomial  $(o^2pq^2 + 4o^2 + 5op)$  at  $o=5, p=(-1), q=0$  is

- (i) 76 (ii) 74 (iii) 72 (iv) 78 (v) 75

14. The coefficient of term  $g^2h^2$  in polynomial  $(7f^2h + 8fgh^2 - 6f + 5g^2h^2 + 5g^2)$  is

- (i) 6 (ii) 7 (iii) 2 (iv) 5 (v) 4

15. The coefficient of term  $s^3t^2u$  in polynomial  $(-5s^3t^3u^2 - 2s^3t^2u - s^3t - 3s^2u^2 + 7st^2u^2 + 5t^3u^3 - 8u^3)$  is

- (i) -3 (ii) -1 (iii) 0 (iv) -5 (v) -2

16. The degree of the polynomial  $(-8s^5 + 7s^4 - 3s^3 - 6s^2 + 9)$  is

- (i) 7 (ii) 4 (iii) 3 (iv) 5 (v) 6

17. The value of the polynomial  $(8u^2vw^2 - 9u^2v)$  at  $u=2, v=(-5), w=5$  is

- (i) -3817 (ii) -3822 (iii) -3820 (iv) -3821 (v) -3819

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

- (i)  $(-4q^3rs^2 - 2q^2r^3 + 4q)$  (ii)  $(-q^3r^3s^3)$  (iii) 5 (iv)  $(-5qr^3s^2 - 6qr^2 + 2qrs - 1)$  (v)  $(-7r^3s - 9r^3)$

19. The value of the polynomial  $(-7t - 5)$  at  $t=(-2)$  is

- (i) 12 (ii) 6 (iii) 9 (iv) 10 (v) 8

20. The coefficient of term  $no^2$  in polynomial  $(3no^2 + 10no - 4n + 7)$  is

- (i) 3 (ii) 6 (iii) 2 (iv) 4 (v) 1

21. The expanded form of  $(4bc)^3$  is

- (i)  $4bc$  (ii)  $4bc \times 4bc \times 4bc \times 4bc \times 4bc$  (iii)  $4bc \times 4bc \times 4bc$  (iv)  $4bc \times 4bc \times 4bc \times 4bc$  (v)  $4bc \times 4bc$

22. Given  $f(z) = (-6z^2 - 9z + 5)$ , find  $f(2)$

- (i) -34 (ii) -36 (iii) -37 (iv) -40 (v) -38

23.  $26 \times e \times e \times f \times f \times f \times f =$

- (i)  $24e^2f^4$  (ii)  $26ef^4$  (iii)  $26e^2f^4$  (iv)  $26e^3f^4$  (v)  $29e^2f^4$

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

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

25. Given  $f(k) = (3k^4 + 6k^3 - 7k^2 + k + 8)$ , find  $f(4)$

- (i) 1054 (ii) 1053 (iii) 1050 (iv) 1052 (v) 1051

## Assignment Key

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