EduSahara™ Assignment

Name : Polynomials Miscellaneous

Chapter : Polynomials

Grade : CBSE Grade X

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1. The degree of the polynomial $(6h+1)$ is

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

2. The degree of the polynomial $(-4x^2-6x-2)$ is

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

3. The degree of the polynomial $(6w^4-5w^2-1)$ is

   (i) 1 (ii) 4 (iii) 3 (iv) 6 (v) 5

4. The degree of the polynomial $(-9e^5-9e^4+2e^3-4e+6)$ is

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

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

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

6. Which of the following algebraic expressions is a linear polynomial?

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

7. Which of the following algebraic expressions is a quadratic polynomial?

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

8. Which of the following algebraic expressions is a cubic polynomial?

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

9. The value of the polynomial $(2e-6)$ at $e=(-5)$ is

   (i) -16 (ii) -17 (iii) -14 (iv) -15 (v) -19

10. The value of the polynomial $(-p^2+6p+2)$ at $p=(-4)$ is

    (i) -39 (ii) -38 (iii) -36 (iv) -37 (v) -41

11. The value of the polynomial $(-v^3+4v^2+7)$ at $v=(-5)$ is

    (i) 231 (ii) 229 (iii) 234 (iv) 232 (v) 233

12. The value of the polynomial $(8v^4+4v^3+4v^2-5v+2)$ at $v=0$ is

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

13. Which of the following are true?

a) Zero of a polynomial and root of the polynomial are synonymous
b) A linear polynomial in one variable has only one root
c) If (x + a) is a factor of f(x), then f(a) = 0
d) Zero of a polynomial and zero polynomial are synonymous
e) Zero of a polynomial is the value of the variable for which the polynomial value is zero
f) A polynomial of degree n has atmost n zeros
g) If (x - a) is a factor of f(x), then f(a) = 0

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

14. Which of the following are true?

a) Degree of zero polynomial is zero
b) A binomial may have degree 3
c) A binomial has two and only two terms
d) πr^2 is a monomial
e) Every polynomial is a binomial

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

15. Which of the following are polynomials?

a) $(x+y)$
b) $\frac{(x+y)}{(x-y)}$
c) $x+\frac{1}{x}$
d) x^2
e) $x^2+\frac{1}{x^2}$

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

16. Which of the following are not polynomials?

a) $x+\frac{1}{x}$
b) $\frac{(8x+3y)}{(6x-6y)}$
c) $(48x^2-30xy-18y^2)$
d) $25x^2$
e) $(8x+3y)$

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

17. Which of the following are not polynomials?

a) x^2

b) $(9x+y)$

c) $(2x-7y)$

d) $x^2+\frac{1}{x^2}$

e) √x

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

18. Which of the following are not polynomials?

a) $(24x^2+38xy-20y^2)$

b) √x

c) $(12x-5y)$

d) $81x^2$

e) $\frac{(2x+4y)}{(12x-5y)}$

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

19. Given $f(w)=(4w+1)$, find *f(0)*

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

20. Given $f(s)=(8s^2+9s-3)$, find *f(5)*

(i) 243 (ii) 241 (iii) 245 (iv) 240 (v) 242

21. Given $f(v)=(7v^3+6v^2+6v)$, find *f(5)*

(i) 1053 (ii) 1054 (iii) 1056 (iv) 1055 (v) 1058

22. Given $f(i)=(8i^4-9i^3-4i^2+8i-2)$, find *f((-1))*

(i) 4 (ii) 3 (iii) 2 (iv) 1 (v) 5

Assignment Key

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

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