EduSahara™ Assignment

Name : Polynomial Division

Chapter : Fundamental Concepts

Grade : ICSE Grade VIII

1. The quotient when $(-3y)$ is divided by (-8) is

   (i) $\frac{5}{8}y$ (ii) $\frac{3}{10}y$ (iii) $\frac{3}{8}y$ (iv) $\frac{1}{2}y$ (v) $\frac{1}{8}y$

2. The quotient when $(-5s^2)$ is divided by $(s+1)$ is

   (i) $(-8s+5)$ (ii) $(-6s+5)$ (iii) $(-4s+5)$ (iv) $(-5s+5)$ (v) $(-2s+5)$

3. The quotient when $(6r-4)$ is divided by $(r+9)$ is

   (i) 8 (ii) 5 (iii) 6 (iv) 4 (v) 7

4. The quotient when $(-3f^2-6f-4)$ is divided by $(f+1)$ is

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

5. The quotient when $(5b^2-8b)$ is divided by $(b-1)$ is

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

6. The quotient when $(-2b^2-3b-1)$ is divided by $(b+7)$ is

   (i) $(-2b+11)$ (ii) $(-3b+11)$ (iii) $(b+11)$ (iv) $(-4b+11)$ (v) $(-b+11)$

7. The quotient when $(6a^4+a^3+4a^2-7a-2)$ is divided by (a^2+4a-5) is

   (i) $(4a^2-23a+126)$ (ii) $(5a^2-23a+126)$ (iii) $(7a^2-23a+126)$ (iv) $(9a^2-23a+126)$

   (v) $(6a^2-23a+126)$

8. The quotient when $(3e^5-e^4+4e^3+3e^2-8e-9)$ is divided by $(e-9)$ is

   (i) $(5e^4+26e^3+238e^2+2145e+19297)$ (ii) $(e^4+26e^3+238e^2+2145e+19297)$

   (iii) $(2e^4+26e^3+238e^2+2145e+19297)$ (iv) $(3e^4+26e^3+238e^2+2145e+19297)$

   (v) $(4e^4+26e^3+238e^2+2145e+19297)$

9. The remainder when $2b$ is divided by (-7) is

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

10. The remainder when $(-2p^2)$ is divided by $(p+2)$ is

    (i) (-6) (ii) (-7) (iii) (-8) (iv) (-9) (v) (-11)

11. The remainder when $(2b+3)$ is divided by $(b-5)$ is

    (i) 13 (ii) 14 (iii) 15 (iv) 12 (v) 10

12. The remainder when $(7u^2+6u)$ is divided by $(u+6)$ is

(i) 219 (ii) 217 (iii) 214 (iv) 216 (v) 215

13. The remainder when $(-6u^2+3u-2)$ is divided by $(u-7)$ is

(i) (-274) (ii) (-276) (iii) (-275) (iv) (-277) (v) (-273)

14. The remainder when $(7f^3+4f^2-5f)$ is divided by $(f^2+2f-24)$ is

(i) $(184f-240)$ (ii) $(183f-240)$ (iii) $(186f-240)$ (iv) $(182f-240)$ (v) $(180f-240)$

15. The remainder when $(7f^4+7f^3-8f^2-7f-4)$ is divided by $(f^2-11f+30)$ is

(i) $(5241f-21184)$ (ii) $(5238f-21184)$ (iii) $(5240f-21184)$ (iv) $(5237f-21184)$ (v) $(5239f-21184)$

16. The remainder when $(-9z^4+9z^3-5z^2+5)$ is divided by (z^2+6z-7) is

(i) $(3117z-3117)$ (ii) $(3116z-3117)$ (iii) $(3115z-3117)$ (iv) $(3118z-3117)$ (v) $(3120z-3117)$

17. $(-4x^3+14x^2-16x+6)\div(2x^2-4x+2)=$

(i) $(-x+3)$ (ii) $(2x+3)$ (iii) $(-2x-3)$ (iv) $(-3x+3)$ (v) $(-2x+3)$

18. $(16x^3y^3+128x^2y^3)\div 4xy=$

(i) $(4x^2y^2+32y^3)$ (ii) $(4x^3y^4+32xy^2)$ (iii) $(4x^2y^2+32xy^3z)$ (iv) $(4x^3y^3+32xy^2)$

(v) $(4x^2y^2+32xy^2)$

19. $(4x^4y^3z^3+128x^3y^2z^4+32x^3y^2z^3)\div 2x^2yz^2=$

(i) $(2x^3y^3z+64xyz^2+16xyz)$ (ii) $(2x^3y^4z+64xyz^2+16xyz)$ (iii) $(2x^2y^2z+64xy^2z^3+16xyz)$

(iv) $(2x^2y^2z+16xyz+64y^2z^2)$ (v) $(2x^2y^2z+64xyz^2+16xyz)$

20. $(4x^3+x^2)\div x$

(i) $(4x^2+x)$ (ii) $(3x^2+x)$ (iii) $(4x^2-x)$ (iv) $(-4x^2+x)$ (v) $(4x^2+2x)$

21. $(25x^4+40x^3+16x^2)\div(5x^2+4x)$

(i) $(-5x^2+4x)$ (ii) $(5x^2-4x)$ (iii) $(4x^2+4x)$ (iv) $(5x^2+5x)$ (v) $(5x^2+4x)$

22. $(15x^4+112x^3+240x^2+128x)\div(3x^2+20x+32)$

(i) $(5x^2+5x)$ (ii) $(5x^2-4x)$ (iii) $(5x^2+3x)$ (iv) $(-5x^2+4x)$ (v) $(5x^2+4x)$

23. Find the remainder when $(4x^2-24x+27)$ is divided by $(3x+5)$

(i) $\frac{547}{7}$ (ii) $\frac{235}{3}$ (iii) $\frac{703}{9}$ (iv) $\frac{859}{11}$ (v) $\frac{701}{9}$

Assignment Key

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