



1. The quotient when  $6s^2$  is divided by  $(s+6)$  is

- (i)  $(5s-36)$  (ii)  $(8s-36)$  (iii)  $(3s-36)$  (iv)  $(6s-36)$  (v)  $(7s-36)$

2. The quotient when  $(5i-1)$  is divided by  $(i-6)$  is

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

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

- (i)  $(p-13)$  (ii)  $(3p-13)$  (iii)  $(7p-13)$  (iv)  $(4p-13)$  (v)  $(5p-13)$

4. The quotient when  $(-8s^2+6s)$  is divided by  $(s-3)$  is

- (i)  $(-10s-18)$  (ii)  $(-9s-18)$  (iii)  $(-6s-18)$  (iv)  $(-8s-18)$  (v)  $(-7s-18)$

5. The quotient when  $(9u^5+2u^4-6u^3+8u^2+2u+9)$  is divided by  $(u-8)$  is

- (i)  $(6u^4+74u^3+586u^2+4696u+37570)$  (ii)  $(11u^4+74u^3+586u^2+4696u+37570)$   
(iii)  $(8u^4+74u^3+586u^2+4696u+37570)$  (iv)  $(10u^4+74u^3+586u^2+4696u+37570)$   
(v)  $(9u^4+74u^3+586u^2+4696u+37570)$

6. The remainder when  $8p$  is divided by  $(-3)$  is

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

7. The remainder when  $(-2s^2)$  is divided by  $(s-6)$  is

- (i)  $(-75)$  (ii)  $(-73)$  (iii)  $(-71)$  (iv)  $(-72)$  (v)  $(-70)$

8. The remainder when  $(-6d+4)$  is divided by  $(d-8)$  is

- (i)  $(-44)$  (ii)  $(-46)$  (iii)  $(-43)$  (iv)  $(-41)$  (v)  $(-45)$

9. The remainder when  $(6k^2-2k)$  is divided by  $(k-6)$  is

- (i) 203 (ii) 204 (iii) 206 (iv) 202 (v) 205

10. The remainder when  $(z^2+8z+3)$  is divided by  $(z+7)$  is

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

11. Find the remainder when  $(2x^2-14x+12)$  is divided by  $(2x+7)$

- (i)  $\frac{341}{4}$  (ii) 86 (iii)  $\frac{171}{2}$  (iv)  $\frac{173}{2}$  (v)  $\frac{169}{2}$

12. If  $f(x) = (8x^3 + 24x^2 + 6x - 10)$  and  $g(x) = (4x^3 + 24x^2 + 5x - 75)$  have a common factor, find the common factor  
(i)  $(2x+2)$  (ii)  $(2x-1)$  (iii)  $(x+5)$  (iv)  $(2x-3)$  (v)  $(2x+5)$

13. If the polynomial  $x^2 + ax + b$  is divided by  $(x-2)$ , it leaves a remainder 12. If it is divided by  $(x+3)$ , it leaves a remainder 2. Find the value of  $a$  and  $b$   
(i) 1, 2 (ii) 3, 2 (iii) 3, 4 (iv) 4, 2 (v) 3, 3

## Assignment Key

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1) (iv)	2) (i)	3) (iv)	4) (iv)	5) (v)	6) (v)
7) (iv)	8) (i)	9) (ii)	10) (v)	11) (iii)	12) (v)
13) (ii)					