



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

- (i)  $(-\frac{8}{5}u)$  (ii)  $(-\frac{6}{5}u)$  (iii)  $(-\frac{8}{7}u)$  (iv)  $(-\frac{4}{5}u)$  (v)  $(-\frac{4}{3}u)$

2. The quotient when  $2n^2$  is divided by  $(n+9)$  is

- (i)  $(5n-18)$  (ii)  $(2n-18)$  (iii)  $(n-18)$  (iv)  $(3n-18)$  (v)  $(-n-18)$

3. The quotient when  $(9z-8)$  is divided by  $(z+9)$  is

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

4. The quotient when  $(-9w^2-9w-6)$  is divided by  $(w-7)$  is

- (i)  $(-9w-72)$  (ii)  $(-6w-72)$  (iii)  $(-8w-72)$  (iv)  $(-11w-72)$  (v)  $(-10w-72)$

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

- (i)  $(5j+20)$  (ii)  $(4j+20)$  (iii)  $(j+20)$  (iv)  $(3j+20)$  (v)  $(6j+20)$

6. The quotient when  $(7h^3-4h-2)$  is divided by  $(h^2-17h+72)$  is

- (i)  $(8h+119)$  (ii)  $(7h+119)$  (iii)  $(10h+119)$  (iv)  $(5h+119)$  (v)  $(6h+119)$

7. The quotient when  $(2m^4-m^3+m^2+7m+4)$  is divided by  $(m-9)$  is

- (i)  $(3m^3+17m^2+154m+1393)$  (ii)  $(5m^3+17m^2+154m+1393)$  (iii)  $(2m^3+17m^2+154m+1393)$   
(iv)  $(-m^3+17m^2+154m+1393)$  (v)  $(m^3+17m^2+154m+1393)$

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

- (i)  $(-5p^4+68p^3-607p^2+5459p-49139)$  (ii)  $(-9p^4+68p^3-607p^2+5459p-49139)$   
(iii)  $(-7p^4+68p^3-607p^2+5459p-49139)$  (iv)  $(-8p^4+68p^3-607p^2+5459p-49139)$   
(v)  $(-11p^4+68p^3-607p^2+5459p-49139)$

9. The remainder when  $8m$  is divided by 5 is

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

10. The remainder when  $(-g^2)$  is divided by  $(g-9)$  is

- (i)  $(-82)$  (ii)  $(-80)$  (iii)  $(-78)$  (iv)  $(-83)$  (v)  $(-81)$

11. The remainder when  $(7j+6)$  is divided by  $(j+9)$  is

- (i)  $(-56)$  (ii)  $(-57)$  (iii)  $(-60)$  (iv)  $(-55)$  (v)  $(-58)$

12. The remainder when  $(k^2 + 8k)$  is divided by  $(k+5)$  is

- (i)  $(-15)$  (ii)  $(-13)$  (iii)  $(-17)$  (iv)  $(-14)$  (v)  $(-16)$

13. The remainder when  $(-5d^2 - 8d - 3)$  is divided by  $(d+6)$  is

- (i)  $(-134)$  (ii)  $(-136)$  (iii)  $(-135)$  (iv)  $(-138)$  (v)  $(-132)$

14. The remainder when  $(-4y^2 - 5y + 3)$  is divided by  $(y+1)$  is

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

15. The remainder when  $(-7v^4 + 2v^3 + 4v^2 + v - 1)$  is divided by  $(v-8)$  is

- (i)  $(-27383)$  (ii)  $(-27384)$  (iii)  $(-27385)$  (iv)  $(-27386)$  (v)  $(-27388)$

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

- (i)  $(141t - 252)$  (ii)  $(140t - 252)$  (iii)  $(139t - 252)$  (iv)  $(142t - 252)$  (v)  $(137t - 252)$

17.  $(9x^3 + 30x^2 + 28x + 8) \div (-3x^2 - 8x - 4) =$

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

18.  $(-6x^4 - 21x^3 - 12x^2 + 21x + 18) \div (-6x^3 - 27x^2 - 39x - 18) =$

- (i)  $(2x - 1)$  (ii)  $(-1)$  (iii)  $(-x - 1)$  (iv)  $(x + 1)$  (v)  $(x - 1)$

19.  $(-12x^5 + 30x^4 + 18x^3 - 66x^2 - 6x + 36)$  divided by  $(6x^3 - 12x^2 - 6x + 12) =$

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

20.  $(36x^3y^2 + 288x^2y^2) \div 6xy =$

- (i)  $(6x^2y + 48y^2)$  (ii)  $(6x^3y^2 + 48xy)$  (iii)  $(6x^2y + 48xy^2z)$  (iv)  $(6x^3y^3 + 48xy)$  (v)  $(6x^2y + 48xy)$

21.  $(36x^3y^3z^4 + 252x^3y^2z^4 + 1764x^3y^2z^3) \div 6xyz^2 =$

- (i)  $(6x^3y^3z^2 + 42x^2yz^2 + 294x^2yz)$  (ii)  $(6x^3y^4z^2 + 42x^2yz^2 + 294x^2yz)$   
(iii)  $(42x^2y^2z^3 + 6x^2y^2z^2 + 294x^2yz)$  (iv)  $(6x^2y^2z^2 + 294x^2yz + 42xy^2z^2)$   
(v)  $(6x^2y^2z^2 + 42x^2yz^2 + 294x^2yz)$

22.  $(12x^3 + 12x^2) \div 3x =$

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

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

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

24.  $(12x^4 - 13x^3 - 64x^2 - 15x) \div (3x^2 - 4x - 15)$

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

25. Find the remainder when  $(9x^2 - 3x - 12)$  is divided by  $(3x + 7)$

- (i) 42 (ii) 45 (iii) 46 (iv) 44 (v) 43

## Assignment Key

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