



1. The quotient when  $(-u)$  is divided by  $(-9)$  is

- (i)  $\frac{1}{11}u$  (ii)  $\frac{1}{9}u$  (iii)  $\frac{1}{3}u$  (iv)  $\frac{1}{7}u$  (v)  $(-\frac{1}{9}u)$

2. The quotient when  $3c^2$  is divided by  $(c+1)$  is

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

3. The quotient when  $(-8q+1)$  is divided by  $(q-5)$  is

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

4. The quotient when  $(9k^2+4k+6)$  is divided by  $(k+1)$  is

- (i)  $(8k-5)$  (ii)  $(10k-5)$  (iii)  $(12k-5)$  (iv)  $(9k-5)$  (v)  $(7k-5)$

5. The quotient when  $(-4y^2-8y)$  is divided by  $(y-4)$  is

- (i)  $(-5y-24)$  (ii)  $(-7y-24)$  (iii)  $(-3y-24)$  (iv)  $(-y-24)$  (v)  $(-4y-24)$

6. The quotient when  $(2n^3+4n^2+9n)$  is divided by  $(n^2-64)$  is

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

7. The quotient when  $(5g^4+6g^3+9g^2+3g-2)$  is divided by  $(g^2-g-42)$  is

- (i)  $(4g^2+11g+230)$  (ii)  $(5g^2+11g+230)$  (iii)  $(7g^2+11g+230)$  (iv)  $(6g^2+11g+230)$   
(v)  $(3g^2+11g+230)$

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

- (i)  $(5a^4-10a^3+96a^2-868a+7804)$  (ii)  $(3a^4-10a^3+96a^2-868a+7804)$   
(iii)  $(2a^4-10a^3+96a^2-868a+7804)$  (iv)  $(-10a^3+96a^2-868a+7804)$   
(v)  $(a^4-10a^3+96a^2-868a+7804)$

9. The remainder when  $7s$  is divided by 4 is

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

10. The remainder when  $(-9g^2)$  is divided by  $(g-4)$  is

- (i)  $(-145)$  (ii)  $(-144)$  (iii)  $(-143)$  (iv)  $(-142)$  (v)  $(-147)$

11. The remainder when  $(-9y+9)$  is divided by  $(y-7)$  is

- (i)  $(-54)$  (ii)  $(-55)$  (iii)  $(-53)$  (iv)  $(-57)$  (v)  $(-51)$

12. The remainder when  $(-8r^2 + 7r)$  is divided by  $(r-7)$  is

- (i)  $(-341)$  (ii)  $(-344)$  (iii)  $(-342)$  (iv)  $(-346)$  (v)  $(-343)$

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

- (i)  $(-50)$  (ii)  $(-52)$  (iii)  $(-56)$  (iv)  $(-54)$  (v)  $(-53)$

14. The remainder when  $(4d^3 - 2d^2 + 2)$  is divided by  $(d^2 - 18d + 81)$  is

- (i)  $(938d - 5668)$  (ii)  $(937d - 5668)$  (iii)  $(936d - 5668)$  (iv)  $(934d - 5668)$  (v)  $(935d - 5668)$

15. The remainder when  $(7n^4 + 5n^3 - n^2 - n + 3)$  is divided by  $(n^2 + n - 30)$  is

- (i)  $(-269n + 6333)$  (ii)  $(-272n + 6333)$  (iii)  $(-273n + 6333)$  (iv)  $(-271n + 6333)$  (v)  $(-275n + 6333)$

16. The remainder when  $(8a^3 + 5a^2 - 6a - 3)$  is divided by  $(a^2 - 13a + 40)$  is

- (i)  $(1091a - 4363)$  (ii)  $(1090a - 4363)$  (iii)  $(1092a - 4363)$  (iv)  $(1088a - 4363)$  (v)  $(1093a - 4363)$

17.  $(18x^3 + 12x^2 - 10x - 4) \div (6x^2 + 2x - 4) =$

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

18.  $(-6x^4 + 23x^3 - 13x^2 - 7x + 3) \div (-2x^3 + 7x^2 - 2x - 3) =$

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

19.  $(72x^5 + 24x^4 - 142x^3 + 12x^2 + 46x - 12)$  divided by  $(12x^3 + 14x^2 - 14x - 12) =$

- (i)  $(6x^2 + 5x + 1)$  (ii)  $(6x^2 - 5x + 1)$  (iii)  $(6x^2 - 4x + 1)$  (iv)  $(6x^2 - 6x + 1)$  (v)  $(6x^2 - 5x - 1)$

20.  $(4x^3y^3 + 24x^2y^4) \div 2xy^2 =$

- (i)  $(2x^2y + 12y^3)$  (ii)  $(2x^2y + 12xy^3z)$  (iii)  $(2x^3y^3 + 12xy^2)$  (iv)  $(2x^2y + 12xy^2)$  (v)  $(2x^3y^2 + 12xy^2)$

21.  $(16x^4y^2z^3 + 144x^3y^3z^2 + 432x^3y^2z^3) \div 4x^2yz =$

- (i)  $(4x^2yz^2 + 36xy^3z^2 + 108xyz^2)$  (ii)  $(4x^3y^3z^2 + 36xy^2z + 108xyz^2)$  (iii)  $(4x^2yz^2 + 108xyz^2 + 36y^3z)$   
(iv)  $(4x^3y^2z^2 + 36xy^2z + 108xyz^2)$  (v)  $(4x^2yz^2 + 36xy^2z + 108xyz^2)$

22.  $(20x^3 + 12x^2) \div 4x$

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

23.  $(20x^4 + 24x^3 + 4x^2) \div (5x^2 + x)$

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

24.  $(6x^4 - 58x^3 + 20x^2 + 144x) \div (2x^2 - 22x + 36)$

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

## Assignment Key

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