

# PARTIAL FRACTIONS

5

1m	2m	3m	4m	5m	6m	Total marks
–	–	–	–	1(K)	–	05

## 5 MARK QUESTIONS

(Knowledge)

1. Resolve  $\frac{x+2}{(x+4)(x+3)(x+1)}$  into partial fraction.
2. Resolve  $\frac{x+8}{(2x^2-x-1)(x-1)}$  into partial fraction.
3. Resolve  $\frac{x-1}{x(x+2)(x+4)}$  into partial fraction.
4. Resolve  $\frac{3x+5}{(x+2)^2(x-3)}$  into partial fraction.
5. Resolve  $\frac{3-7x^2}{(1-3x)(1+2x)(1+x)}$  into partial fraction.
6. Resolve  $\frac{x^2}{(x+1)(x+2)(x+3)}$  into partial fractions.
7. Resolve  $\frac{2x^2+10x-3}{(x+1)(x+3)(x+3)}$  into partial fractions.
8. Resolve  $\frac{x^2-10x+13}{(x+1)(x^5-5x+6)}$  into partial fraction.
9. Resolve  $\frac{x+3}{(x-1)(x^2-4)}$  into partial fraction.

**QUESTION BANK****II PUC**

10. Resolve  $\frac{1+3x+2x^2}{(1-2x)(1-x^2)}$  into partial fractions.
11. Resolve  $\frac{9}{(x+2)^2(x+1)}$  into partial fractions.
12. Resolve  $\frac{3x+4}{(x+1)^2(x-1)}$  into partial fractions.
13. Resolve  $\frac{2x^2-4x+1}{(x-2)(x-3)^2}$  into partial fractions.
14. Resolve  $\frac{x^2}{(x+1)^2(x-5)}$  into partial fractions.
15. Resolve  $\frac{4-7x}{(2+3x)(1+x)^2}$  into partial fractions.
16. Resolve  $\frac{9x-27}{(x+1)(x-2)^2}$  into partial fractions.
17. Resolve  $\frac{2x+21}{(x+2)(x-1)^2}$  into partial fractions.
18. Resolve  $\frac{x}{(1+2x)^2(1-3x)}$  into partial fractions.
19. Resolve  $\frac{1}{x(x^2-9)}$  into partial fractions.
20. Resolve  $\frac{2x^2+16x+29}{(x+3)^2(x+4)}$  into partial fractions.
21. Resolve  $\frac{(x-1)}{(x+2)(x^2-x-6)}$  into partial fractions.
22. Resolve  $\frac{x}{(x+1)(x^2+3x+2)}$  into partial fractions.

## BASIC MATHEMATICS

23. Resolve  $\frac{1+2x}{(x+2)(x^2+x-2)}$  into partial fractions.

24. Resolve into partial fractions  $\frac{2x+1}{(x-1)(x+2)(3x-1)}$

25. Resolve  $\frac{3x+5}{(x-2)^2(x+3)}$  into partial fractions.

26. Resolve  $\frac{2x^2+x+2}{x(x+1)^2}$  into partial fractions.

27. Resolve  $\frac{x^2+1}{(x+1)(x-2)^2}$  into partial fractions.

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