



**Nalanda Collage – Colombo 10**

**Grade 09 – Third Term**

**Unit Test 26**

**Mathematics**

**Algebraic Fractions**

$1\frac{1}{4}$  hours

**Part I & II**

Simplify and keep the answer in simplest form.

1.  $\frac{x}{7} + \frac{x}{7}$

2.  $\frac{4a}{8} + \frac{10a}{8}$

3.  $\frac{9b}{11} - \frac{4b}{11} + \frac{3b}{11}$

4.  $\frac{2p}{12} - \frac{7p}{12} + \frac{9p}{12}$

5.  $\frac{4y}{7} - \frac{3y}{7} - \frac{8y}{7}$

6.  $\frac{2x+1}{3} + \frac{4x-3}{3}$

7.  $\frac{9p-2}{8} + \frac{2p+7}{8} - \frac{3p-3}{8}$

8.  $\frac{x}{2} + \frac{3x}{6}$

9.  $\frac{2p}{7} + \frac{p}{14}$

$$10. \frac{5x}{4} - \frac{3x}{12}$$

$$11. \frac{2x}{3} - \frac{3x}{2} + \frac{x}{6}$$

$$12. \frac{5m}{7} - \frac{2m}{14} + \frac{m}{21}$$

$$13. \frac{2a-3b}{4} + \frac{5a+4b}{8}$$

$$14. \frac{3x+y}{10} + \frac{2x+y}{15} + \frac{x-5y}{20}$$

$$15. \frac{5}{2a} + \frac{2}{2a}$$

$$16. \frac{4}{5p} + \frac{2}{5p}$$

$$17. \frac{2}{4m} + \frac{7}{4m} - \frac{3}{4m}$$

$$18. \frac{7}{2x+y} + \frac{9}{2x+y} - \frac{3}{2x+y}$$

$$19. \frac{17}{3s-2t} - \frac{3}{3s-2t}$$

$$20. \frac{7}{3t-1} + \frac{2}{3t-1}$$