SECTION - C

Question numbers 19 to 28 carry 3 marks each.

19. Simplify
$$\left(\frac{81}{16}\right)^{\frac{-3}{4}} \left[\left(\frac{25}{9}\right)^{\frac{-3}{2}} \div \left(\frac{5}{2}\right)^{-3}\right]$$
.

20. Simplify the following by rationalising the denominator.

$$\frac{7\sqrt{3} - 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$$

OR

If $\frac{\sqrt{3}-1}{\sqrt{3}+1}=a+b\sqrt{3}$, find the value of a and b.

21. If $x + \frac{1}{x} = 7$ then find the value of $x^3 + \frac{1}{x^3}$.

OR

If $x - \frac{1}{x} = 3$ then find the value of $x^3 - \frac{1}{x^3}$.

22. Express $3.42\overline{5}$ in the form $\frac{P}{q}$ where p and q are integers, $q \approx 0$.

23. If $a^2 + b^2 + c^2 = 250$ and ab + bc + ca = 3 find a + b + c.

 In figure 6, ΔLMN is an isosceles triangle with LM=LN, and LP bisects ∠NLQ. Prove that LP∥MN.

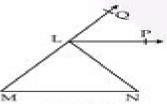


Figure 6

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Robert R. Redfield

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