

Roll No. :  
Date :

Time -  
MM - 33

1. Simplify  $\sqrt{72} + \sqrt{800} - \sqrt{18}$ . 1
2. State with reasons whether  $\sqrt{20} \times \sqrt{45}$  is a surd or not? 1
3. Simplify  $(\sqrt{13} + \sqrt{5})(\sqrt{13} - \sqrt{5})$ . 1
4. Simplify  $\sqrt{125} \times \sqrt{5}$ . 1
5. Find the value of  $\sqrt{(3^{-2})}$ . 1
6. Which is the greatest among  $\sqrt{2}$ ,  $\sqrt[3]{4}$  and  $\sqrt[4]{3}$ ? 1
7. Simplify  $(\sqrt{3} - \sqrt{7})^2$ . 1
8. Simplify  $(\sqrt{3} + \sqrt{5})(3 - \sqrt{5})$ . 1
9. Simplify  $\sqrt[4]{81} - 8(\sqrt[3]{216}) + 15(\sqrt[5]{32}) + \sqrt{225}$ . 2
10. Simplify  $8\sqrt{242} - 5\sqrt{50} + 3\sqrt{98}$ . 2
11. Simplify  $3\sqrt[3]{40} - 4\sqrt[3]{320}$ . 2
12. Find: (i)  $\sqrt[4]{\sqrt[3]{2^2}}$  (ii)  $2^5\sqrt[4]{(2^3)^4}$  2
13. Find the value of (i)  $\sqrt{(144)^{-2}}$  (ii)  $\sqrt{(3)^{-2}}$  2
14. Simplify  $\sqrt[3]{2} \times \sqrt[4]{3}$ . 2
15. Simplify  $12\sqrt{18} - 6\sqrt{20} - 3\sqrt{50} + 8\sqrt{45}$ . 2
16. Evaluate  $\sqrt[4]{12} \times \sqrt[7]{6}$ . 2
17. Represent  $\sqrt{17}$  on number line. 3
18. Simplify  $3\sqrt{45} - \sqrt{125} + \sqrt{200} - \sqrt{50}$ . 3
19. Prove that  $\sqrt{3 \times 5^{-3}} \div \sqrt[3]{3^{-1} \times 5} \times \sqrt[6]{3 \times 5^5} = \frac{3}{5}$ . 3