SQUARE ROOT & CUBE ROOT

F. M. 30 Time: 30 minutes

1. Find the value of $\sqrt{6492304}$
1)) 2382 2)2488 3) 2548
4) 2684 5) None of these

2. $\frac{\sqrt{6727}}{\sqrt{7}}$ = ?
1) 30.79 2)32.39 3) 31
4) 33 5) None of these

3. If $\sqrt{\left(1+\frac{27}{169}\right)} = 1 + \frac{x}{13}$, then x equals
1) 1 2) 3 3) 5
4) 7 5) None of these

4. $\frac{\sqrt{4375}}{\sqrt{7}}$ = ?
1) 24.75 2) 27.75 3) 25
4) 35 5) None of these

5. If $\sqrt{0.04\times0.4\times a} = 0.4 \times 0.04 \times \sqrt{b}$,
then the value of $\frac{a}{b}$ is.
1) 0.016 2) 1.60
3) 0.16 4) None of these

6. $\sqrt{\sqrt[3]{\sqrt[3]{\sqrt[3]{\sqrt[3]{\sqrt[3]{3}}}}}}$ = ?
1) $3^{31/64}$ 2) $3^{31/32}$ 3) $3^{1/64}$
4) $3^{\frac{1}{243}}$ 5) None of these.

7. $\frac{\sqrt{1296}}{?} = \frac{?}{2.25}$
1) 6 2) 7 3) 8 4) 9

8. $\sqrt{176+\sqrt{2401}}$ =?
1) 14 2) 15 3) 18
4) 24 5) None of these

9. $\sqrt{248+\sqrt{52+\sqrt{144}}}$ =1
1) 14 2) 16 3) 16.6
4) 18.8 5) None of these

10. If $\sqrt{\frac{x}{169}} = \frac{54}{39}$, then x is equal to:
1) 108 2) 324 3) 2916
4) 4800 5) None of these

11. $\sqrt{12+\sqrt{12+\sqrt{12+.....}}}$ =?
1) 3 2) 4 3) 6
4) greater than 6 5) None of these

12. $\frac{112}{\sqrt{196}}\times\frac{\sqrt{576}}{12}\times\frac{\sqrt{256}}{8}$ =?
1) 8 2) 12 3) 16
4) 32 5) None of these

13. If $\sqrt{15625}$ = 125, then the value of
$\sqrt{15625}+\sqrt{156.25}+\sqrt{1.5625}$ =?

1) 1.3875 2) 13.875 3) 138.75
4) 156.25 5) None of these

14. Given that $\sqrt{4096}$ = 64, the value of $\sqrt{4096} + \sqrt{40.96} + \sqrt{.004096}$ is
1) 70.4 2) 70.464
3) 71.104 4) 71.4
5) None of these

15. What is the value of $\sqrt[3]{\sqrt{441}+\sqrt{16}+\sqrt{4}}$
1) 3 2)5 3)7
4) 9 5) None of these

16. $\sqrt{0.00059049}$ = ?
1) 0.243 2) 0.0243 3) 0.00243
4) 0.000243 5) None of these

17. $\sqrt{\frac{0.256\times0.081\times4.356}{1.5625\times0.0121\times129.6\times64}}$ =?
1) 0.0124 2) 0.124 3) 0.0024
4) 0.024 5) None of these

18. Given $\sqrt{5}$ =2.2361, $\sqrt{3}$ =1,7321, then $\frac{1}{\sqrt{5}-\sqrt{3}}$ is equal to
1) 1.984 2) 1.9841 3) 1.98
d) 2 5) None of these

19. If cube root of 175616 is 56, then the value of $\sqrt[3]{175.616}+\sqrt[3]{0.175616}+\sqrt[3]{0.000175616}$ is equal to
1) 0.168 2) 62.16 3) 6.216
4) 6.116 5) None of these

20. $\sqrt{\sqrt[3]{0.004096}}$ is equal to
1) 4 2) 0.4 3) 0.04
4) 0.004 5) None of these

21. If the square root of 5625 is 75, then $\sqrt{5625}+\sqrt{56.25}+\sqrt{0.5625}=$
1) 9 2) 83.25 3) 82.80
4) 8.325 5) None of these

22. What approximate value should come in place of the question mark (?)?
36.0001 $\div$ 5.9998 $\times \sqrt{?}$ = 108.0005
1) 18 2) 16 3) 256
4) 316 5) 325
6) None of these

23. Find the approximate value of $\sqrt{1224.9975}$
1) 32 2) 36 3) 34
4) 35 5) 38

24. Find the value of $\sqrt[3]{50+\sqrt{121}+\sqrt{9}}$
1) 6 2) 8 3) 4
4) 12 5) None of these

25. If $\sqrt{(75.24+x)}$ = 8.71, then the value of x is
1) 0.6241 2) 6.241
3) 62.41 4) None of these

26. What is the cube root of $\sqrt[3]{262144}$?
1) 52 2)54 3)56
4) 64 5) None of these

27. What is the cube root of $\sqrt[3]{140608}$?
1) 42 2) 44 3) 48
4) 52 5) None of these

28. What is the cube root of $\sqrt[3]{474552}$?
1) 58 2) 62 3) 68
4) 78 5) None of these

29. $5+1\frac{2}{5}+2\frac{3}{5}-\frac{1}{5}=2\frac{\sqrt{?}}{5}$
1) 1256 2) 1146 3)1156
4) 1362 5) None of these

30. $\sqrt{4096}$ + $\sqrt{6084}$ - $\sqrt{4489}$ =?
1)24 2) 26 3) 28
4) 32 5) None of these.