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PYQRML Square & Cube paper

1) The value of 56^2 is

a) 3176 b) 3156
c) 3146 **d) 3136**

2) Find the value of 1299^2 **[RRB JE 2019]**

a) 1957201 b) 1442401
c)1437601 **d) 1687401**

3) What is the square of 0.5?

[MP Patwari 2017]

a) 2.5 b) 0.025
c) 25 **d) 0.25**

4) Which of the following is not a perfect square?

a) 9602 b) 1369
c) 6241 d) 3136

5) What is the square root of 1521?

[RRB Group D 2018]

a) 31 b) 41
c) 39 d) 49

6) Which of the numbers given below is the square root of 15376? **[RRB ALP 2018]**

a) 122 **b) 124**
c) 134 d) 128

7) $\sqrt{0.04}$ is equal to **[RRB Group D 2012]**

a) 0.002 b) 0.02
c) 0.2 d) None of these

8) The square root of 158.5081 is

a) 12.59 b) 21.59
c) 12.51 d) 12.91

9) The square root of $0.\overline{4}$ is

a) $0.\overline{8}$ **b) $0.\overline{6}$**
c) $0.\overline{7}$ d) $0.\overline{9}$

10) Which of the following will have an irrational square root?

a) 1024 b) 2401
c) 4096 **d) 2048**

11) The square root of which of the following is a rational number? **[SSC CPO 2019]**

a) 2361.96 b) 2758.28
c) 72568.4 c) 62504.9

12) The square root of which of the following is a rational number? **[SSC CPO 2019]**

a) 5823.82 **b) 1489.96**
c) 22504.9 d) 2460.14

13) The square root of $(272^2 - 128^2)$ is

a) 256 b) 200
c) 240 d) 144

14) The value of ? in $\sqrt{147} + \sqrt{27} = ?\sqrt{3}$ is

[Delhi Police Constable 2009]

a) 10 b) 7
c) $2\sqrt{3}$ d) $2\sqrt{7}$

15) the value of ? in $\sqrt{?} - 11 = \sqrt{1521}$ is

[IBPS Clerk 2011]

a) $\sqrt{2500}$ b) 28^2
c) $\sqrt{28}$ d) 50
e) None of these

16) If $\frac{52}{x} = \sqrt{\frac{169}{289}}$, then the value of x is

a) 68 b) 62 c) 58 d) 52

17) If $\frac{x}{\sqrt{0.09}} = 12$, then x will be

a) 0.3 b) 3
c) 36 **d) 3.6**

18) The value of $\frac{\sqrt{80}-\sqrt{112}}{\sqrt{45}-\sqrt{63}}$ is

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a) $\frac{3}{4}$ b) $1\frac{3}{4}$
c) 1 **d) $1\frac{1}{3}$**

19) Simplify $\sqrt{50}+\sqrt{18}-\sqrt{8}$. **[RRB NTPC 2016]**
a) $8\sqrt{2}$ b) $7\sqrt{2}$
c) $6\sqrt{2}$ d) $5\sqrt{2}$

20) If $\sqrt{15}$ = 3.88, then $\sqrt{\frac{5}{3}}$ is equal to
a) $1.29\overline{3}$ b) 1.2934
c) 1.29 d) 1.295

21) $\sqrt{\frac{0.289}{0.00121}}$ is equal to
a) $\frac{170}{11}$ b) $\frac{17}{110}$
c) $\frac{17}{11}$ d) $\frac{0.17}{11}$

22) The value of $\sqrt{\frac{16}{36}+\frac{1}{4}}$ is
a) $\frac{2}{5}$ b) $\frac{1}{3}$
c) $\frac{5}{6}$ d) $\frac{7}{6}$

23) $\frac{\sqrt{0.441}}{\sqrt{0.625}}$ is equal to **[RRB Group B 2012]**
a) 0.048 b) 0.084
c) 0.48 **d) 0.84**

24) The value of $\sqrt{128}+\sqrt{800}-\sqrt{32}$, $\sqrt{2}$ = 1.414
a) 33.83 **b) 33.93**
c) 34.8 d) 34.98

25) $\sqrt{289}-\sqrt{625}\div\sqrt{25}$ is equal to **[SSC MTS 2013]**
a) 17 b) 15
c) 12 d) $-\frac{8}{5}$

26) The value of $\frac{\sqrt{72}\times\sqrt{363}\times\sqrt{175}}{\sqrt{32}\times\sqrt{147}\times\sqrt{252}}$ is **[SSC (10 + 2) 2013]**
a) $\frac{45}{28}$ **b) $\frac{55}{28}$**
c) $\frac{55}{42}$ d) $\frac{45}{56}$

27) The value of $\sqrt{400}+\sqrt{0.04}-\sqrt{0.000004}$ is **[SSC CPO 2013]**
a) 20.22 **b) 20.198**
c) 20.188 d) 20.022

28) $\sqrt{\frac{0.49}{0.25}}+\sqrt{\frac{0.81}{0.36}}$ is equal to
a) $7\frac{9}{10}$ b) $\frac{9}{10}$
c) $2\frac{9}{10}$ d) $9\frac{9}{10}$

29) The value of $\frac{(169-144)^{\frac{1}{2}}}{(64+36)^{\frac{1}{2}}}$ is
a) 0.5 b) 0.25
c) 2.5 d) 5

30) The value of $\frac{(\sqrt{1296}\div\sqrt{144})\times\sqrt[3]{343}}{\sqrt[3]{216}}$ is equal to
a) $\frac{9}{2}$ **b) $\frac{7}{2}$** c) $\frac{5}{7}$ d) $\frac{5}{3}$

31) $\sqrt{176+\sqrt{2401}}$ is equal to **[RRB ASM 2004]**
a) 12 **b) 15**
c) 14 d) 10

32) The value of $\sqrt{40+\sqrt{9\sqrt{81}}}$ is **[SSC (10 + 2) 2018]**
a) 9 **b) 7**
c) 11 d) $\sqrt{111}$

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33) The value of $\sqrt{4+\sqrt{44+\sqrt{10000}}}$ is

a) 12 b) 8
c) 4 d) – 4

34) If $\sqrt{625} = 25$, then $\sqrt{\frac{0.00000625}{25}}$ equal to **[RRB NTPC 2016]**

a) 0.0025 b) 0.001
c) 0.0001 **d) 0.0005**

35) What smallest value must be added to 508, so that the resultant is a perfect square? **[SSC CPO 2017]**

a) 4 b) 9
c) 18 **d) 21**

36) What must be added to make 2203 a perfect square?

a) 1 b) 3
c) 6 d) 8

37) Which smallest number must be subtracted from 13218, so that the resultant is perfect square? **[Delhi Police Constable 2010]**

a) 111 **b) 222**
c) 333 d) 444

38) Which number should be divided by $\sqrt{o.25}$, so that the quotient will be 25?

a) 25 b) 50
c) 12.5 d) 125

39) By which smallest number 294 should be multiplied, so that resultant number is a perfect square?

a) 2 b) 3
c) 6 d) 24

40) 1470 should be divided by which number, so that the resultant quotient is a perfect square?

a) 6 b) 5
c) 15 **d) 30**

41) By which least number should 5000 be divided so that it becomes a perfect square? **[SSC CGL 2017]**

a) 2 b) 5
c) 10 d) 25

42) The greatest perfect square number of 6 digits is **[SSC CGL 2016]**

a) 999001 **b) 998001**
c) 998009 d) 9998101

43) What smallest number should be added to the sum of squares of 15 and 14, so that the resulting number is a perfect square? **[RRB NTPC 2016]**

a) 17 **b) 20**
c) 11 d) 9

44) Which of the following cannot be the unit's digit of a perfect square? **[SSC CGL 2017]**

a) 4 b) 6
c) 8 d) 9

45) How many numbers are there between 200 to 300 which are perfect cubes?

a) 1 b) 2
c) 3 d) 4

46) The approximate value of 10.999^3 is **[IBPS Clerk 2011]**

a) 1000 **b) 1330**
c) 1550 d) 900

47) The value of $\sqrt[3]{1-\frac{152}{216}}$ is equal to

a) $\frac{4}{3}$ b) $1\frac{1}{6}$
c) $\frac{5}{6}$ **d) $\frac{4}{6}$**

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48) $\sqrt[3]{\sqrt{0.000729}} + \sqrt[3]{0.008}$ is equal to
a) 0.1 **b) 0.5**
c) 0.6 d) 0.8

49) The value of $\frac{\sqrt[3]{8}}{\sqrt{16}} \div \sqrt{\frac{100}{49}} \times \sqrt[3]{125}$
a) $\frac{7}{4}$ b) $\frac{3}{4}$
c) -2 d) 1

50) $\sqrt[3]{1000} + \sqrt[3]{0.008} - \sqrt[3]{0.125}$ is equal to **[RRB NTPC 2016]**
a) 9.7 b) 9.97
c) 9.997 d) 9.9997

51) If $\sqrt[3]{185193} = 57$, then the value of $\sqrt[3]{185193} + \sqrt[3]{185.193} + \sqrt[3]{0.000185193}$ is **[SSC FCI 2012]**
a) 6.327 b) 63.275
c) 632.75 **d) 62.757**

52) $\sqrt[3]{0.000216} \div 0.02$ is equal to
a) 0.02 b) 0.06
c) 0.04 **d) None of these**

53) The value of $0.09 \times \sqrt[3]{0.000064}$ is
a) 0.036 b) 0.00036
c) 0.36 **d) None of these**

54) $\sqrt[3]{1 + \sqrt[3]{17576}}$ is equal to
a) 2 **b) 3**
c) 8 d) 7

55) The value of $\sqrt[3]{\sqrt{441} + \sqrt{16} + \sqrt{4}}$ is
a) 3 b) 5
c) 7 d) 9

56) By which smallest number should by 675 be multiplied to make the resultant a perfect cube?
a) 5 b) 6
c) 7 d) 8

57) By what number should $\frac{432}{625}$ be divided so that the resultant is perfect cube?
a) $\frac{1}{3}$ b) $\frac{1}{5}$
c) $\frac{2}{5}$ d) $\frac{3}{5}$

58) By which smallest number must 675 be divided, so that the resultant product is perfect cube?
a) 25 b) 36 c) 27 d) 5

59) If cube of any number is found, then which of the following can be the unit's place digit?
[UP Police Constable 2010]
a) 1 b) 8
c) Any of 0 to 9 d) 9

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