CEVAPLI TEST-4

1. $\sqrt{8-2\sqrt{15}}+\sqrt{3}=5^{\frac{x}{3}}$ *ise x=?*

A) $\frac{2}{3}$ B) 1 C) $\frac{3}{2}$ D) 2 E) 3

2. $\sqrt[8]{5-2\sqrt{6}}\,.\sqrt[4]{\sqrt{3}+\sqrt{2}}=?$

A) 1 B) 2 C) 3 D) 4 E) 5

3. $\left(\frac{\sqrt{4+\sqrt{7}}}{\sqrt{2}}-\frac{1}{2}\right)^2=?$

A) $\frac{2}{7}$ B) $\frac{3}{7}$ C) $\frac{7}{4}$ D) 2 E) 3

4. $\sqrt{12-2\sqrt{35}}\,.\left(\sqrt{7}+\sqrt{5}\right)=?$

A) 2 B) 3 C) 4 D) 5 E) 6

5. $\left(8+\sqrt{60}\right).\left(\sqrt{5}-\sqrt{3}\right)^2=?$

A) 3 B) 4 C) 5 D) 6 E) 7

6. $\frac{\left(3-2\sqrt{2}\right)^7.\left(\sqrt{3}+1\right)^6}{\left(\sqrt{3}-1\right)^8}=?$

A) 27 B) 32 C) 49 D) 64 E) 70

7. $\sqrt{a+\sqrt{4b}}=\sqrt{3}+1$ *ise* $\sqrt{a+b+2}=?$

A) 1 B) 2 C) 3 D) 4 E) 5

8. *(*)* $\frac{\sqrt[3]{4-2\sqrt{3}}.\left(\sqrt{3}+1\right)}{\sqrt[3]{\sqrt{3}+1}}=?$

A) $\sqrt[3]{4}$ B) $\sqrt[3]{8}$ C) $\sqrt[3]{16}$ D) $\sqrt[6]{8}$ E) $\sqrt[3]{9}$

9. $\left.\begin{matrix}a=\sqrt{11}-\sqrt{7}\\ b=\sqrt{11}+\sqrt{7}\end{matrix}\right\}$ *ise a ve b nin geometrik ortası kaçtır?*

A)1 B) 2 C) 5 D) 6 E) 8

10. $\left(\sqrt{\sqrt{5}+1}-\sqrt{\sqrt{5}-1}\right)^2=\frac{A}{\sqrt{5}+2}$

ise A kaçtır?

A) 0 B) $\frac{1}{2}$ C) $\frac{3}{2}$ D) 2 E) 4

11. $\left.\begin{matrix}\sqrt{a+\sqrt{a+\sqrt{a+.....}}}=8\\ \sqrt{12-\sqrt{12-\sqrt{12-.....}}}=b\end{matrix}\right\}$ *ise*

a+b=?

A) 11 B) 35 C) 59 D) 72 E) 76

12 . $\sqrt[3]{a+\sqrt{6+\sqrt[3]{a+\sqrt{6+....}}}}=3$

ise a=?

A) 12 B) 22 C) 24 D) 32 E) 33

13 . $\sqrt{a^2-4a+\sqrt{a^2-4a+\sqrt{.....}}}=4$

ise a nın alabileceği değerler çarpımı kaçtır?

A) 12 B) 6 C) 0 D) 6 E) -12

14 . *x,y Є* Z^+ *olmak üzere*

$\left(\sqrt[7]{4\sqrt[7]{4\sqrt[7]{4.....}}}\right)^x=\sqrt[y]{64}$ ise $\sqrt{x.y}=?$

A) $3\sqrt{2}$ B) $3\sqrt{3}$ C) $4\sqrt{2}$

D) $3\sqrt{5}$ E) $\sqrt{2}$

15 . $2+\dfrac{2+\dfrac{2+\dfrac{....}{\sqrt{5}}}{\sqrt{5}}}{\sqrt{5}}=?$

A) $\dfrac{5+\sqrt{5}}{2}$ B) $5+\sqrt{5}$ C) 2

D) 4 E) 5

16 . *x Є* Z^+ *olmak üzere*

$\sqrt[3]{36:\sqrt[3]{36:\sqrt[3]{36:.....}}}=\sqrt[x]{6^3}$ ise

$\sqrt{x-\sqrt{x-\sqrt{x-.....}}}=?$

A) 1 B) 2 C) 5 D) 8 E) 9

17 . $\sqrt[3]{2\sqrt{4\sqrt[3]{2\sqrt{4\sqrt[3]{2\sqrt{4.....}}}}}}=?$

A)2 B) $2^{\frac{4}{5}}$ C) $2^{\frac{5}{6}}$ D) $2^{\frac{6}{7}}$ E) 1

18 . $\sqrt[3]{x}<\sqrt{5}$ *koşulunu sağlayan x doğal sayısının en büyük değeri kaçtır?*

A) 9 B) 10 C) 11 D) 12 E) 13

19 . $x-\sqrt{x}=6$ *ise*

$\dfrac{\sqrt{x}+3x}{5}+\dfrac{4x}{3}=?$

A) 18 B) 17 C) 15 D) 10 E) 5

20 . $\left.\begin{array}{l} x=\sqrt[3]{5^2} \\ y=\sqrt[5]{5^4} \\ z=\sqrt{5} \end{array}\right\}$ *ise x,y,z yi sıralayın.*

A) y < x < z B) z < x < y
C) x < y < z D) x < z < y
E) z < y < x

1	2	3	4	5	6	7	8	9	10
C	A	C	A	B	D	C	A	B	D
11	12	13	14	15	16	17	18	19	20
C	C	E	A	A	B	B	C	A	B