1) The value of $\sqrt{72+\sqrt{72+\sqrt{72+\cdots}}}$ is :

a)18 b) 8 c) 12 d) 9

2) If m = $\sqrt{5+\sqrt{5+\sqrt{5+\cdots}}}$ and

n = $\sqrt{5-\sqrt{5-\sqrt{5-\cdots}}}$, then among the following the relation between m and n holds is ?

a) m + n + 1 = 0 b) m + n - 1 = 0
c) m - n - 1 = 0 d) m - n + 1 = 0

3) $\sqrt{3\sqrt{3\sqrt{3}\ldots}}$ is equal to :

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

4) Find the value of

$\sqrt{10+\sqrt{25+\sqrt{108+\sqrt{154+\sqrt{225}}}}}$

a) 8 b) 10 c) 4 d) 6

5) $\sqrt{6+\sqrt{6+\sqrt{6+\cdots}}}$ is equal to :

a) 5 b) 4 c) 6 d) 3

6) $\sqrt{1+\sqrt{1+\sqrt{1+\cdots}}}$

a) Lies between 1 and 2
b) Lies between 0 and 1
c) Is greater than 2
d) Equals 1

7) $\sqrt{12+\sqrt{12+\sqrt{12+\cdots}}}$ is equal to :

a) 6 b) 4 c) 2 d) 3

8) $\dfrac{\sqrt{10+\sqrt{25+\sqrt{108+\sqrt{154+\sqrt{225}}}}}}{\sqrt[3]{8}}$ = ?

a) 8 b) 2 c) $\frac{1}{2}$ d) 4

9) The value of $\sqrt{2^3\sqrt{4\sqrt{2^3\sqrt{4\sqrt{2^3\sqrt{4}\ldots}}}}}$ is :

a) 2^3 b) 2^2 c) 2^5 d) 2

10) $\sqrt{2+\sqrt{2+\sqrt{2+\cdots}}}$ is equal to

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

11) The value of $\sqrt{9+2\sqrt{16+\sqrt[3]{512}}}$ is :

a) $2\sqrt{8}$ b) 5 c) $3\sqrt{6}$ d) 6

12) The value of $\sqrt{-\sqrt{3}+\sqrt{3+8\sqrt{7+4\sqrt{3}}}}$ is :

a) ± 2 b) 4 c) -2 d) 2

13) Find the value of $\sqrt{30+\sqrt{30+\sqrt{30+\cdots}}}$

a) 6 b)$3\sqrt{10}$ c) 7 d) 5

14) The value of the expression $\sqrt{6+\sqrt{6+\sqrt{6+\cdots+up\ to\ \infty}}}$ is :

a)2 b) 3 c) 30 d) 5

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