$\underline{Class} - 8^{th}$

Maths Assignment - 3

Q.1 The value of
$$\sqrt{41 + \sqrt{54 + \sqrt{88 + \sqrt{128 + \sqrt{256}}}}}$$
 is

(a) 7

- (b) 6
- (c) 8
- (d) 10

Q.2 The value of
$$\left(\sqrt{\frac{225}{729}} - \sqrt{\frac{25}{144}}\right) \div \sqrt{\frac{16}{81}}$$
 is

- (a) $\frac{1}{48}$
- (b) $\frac{5}{48}$ (c) $\frac{5}{16}$
- $(d) \frac{1}{16}$

Q.3 If
$$\sqrt{0.04 \times 0.4 \times a} = 0.04 \times 0.4 \times \sqrt{b}$$
 then $\frac{a}{b}$ is

- (a) 16×10^{-3}
- (b) 16×10^{-4}
- (c) 16×10^{-5} (d) 16×10^{-6}

Q.4 If
$$\sqrt{1 + \frac{x}{289}} = 1\frac{1}{17}$$
 then x is equal to

- Q.5 If a = 0.1039 then the value of 3a $\sqrt{4a^2 4a + 1}$ is
 - (a) 0.1039
- (b) 0.2078
- (c) 1.1039
- (d) 2.1039

Q.6 What is the least number which should be subtracted from 326 to make it a perfect square?

(a) 2

- (b) 20
- (c) 18
- (d) 14

Q.7 What is the digit at the one's place in the square of the number 2934?

(a) 4

- (b) 6
- (c) 1

(d) 5

Q.8 The square root of 1471369 is

- (a) 1312
- (b) 1211
- (c) 1219
- (d) 1213

Q.9 The value of
$$\sqrt{\frac{0.289}{0.00121}}$$
 is

- (a) $\frac{17}{11}$ (b) $\frac{170}{11}$ (c) $\frac{70}{11}$
- $(d) \frac{17}{110}$

Q.11 The least per	fect square, which	is divisible by each	of 21, 36 and 66 is.		
(a) 213444	(b) 214344	(c) 214434	(d) 231444		
Q.12 Which of the	following numbers	is a square of odd	number?		
(a) 256	(b) 144	(c) 2601	(d) 400		
Q.13 A welfare ass	sociation collected I	Rs 52900 as donation	on from the students. If each paid as		
many rupees	as there were stude	nts, find the numb	ers of students.		
(a) 230	(b) 225	(c) 220	(d) 245		
Q.14 Which of foll	lowing are Pythagor	rean triplets?			
(a) $(2,3,5)$	(b) (5,7,9)	(c) (6,9,11)	(d) (8,15,17)		
Q.15 Which of the	following is not tru	ie?			
(a) $\sqrt{ab} = (\sqrt{a} \times \sqrt{b})$		(b) $\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$			
(c) $\sqrt{a+b} = \sqrt{a} + \sqrt{b}$		(d) $\left(\sqrt{a+b}\right)^2$	(d) $\left(\sqrt{a+b}\right)^2 = a+b$		
Q.16 Sum of the fi	rst n odd natural n	umbers is			
(a) $2n + 1$	(b) n^2	(c) $n^2 - 1$	(d) $2n^2 + 1$		
Q.17 The value of	$\sqrt{45} \times \sqrt{20}$ is				
(a) 18	(b) 30	(c) 20	(d) 60		
Q.18 A perfect squ	ıare number can ne	ever have the digit	at the units place.		
(a) 1	(b) 4	(c) 8	(d) 9		
Q.19 Simplify: $\sqrt{\frac{7}{5}}$	$\frac{\frac{1}{5}}{\frac{5}{5}} + \sqrt{\frac{3\frac{1}{8}}{8}} - \sqrt{\frac{8\frac{1}{10}}{10}}$				
(a) $\frac{37}{40}$	(b) $\frac{41}{43}$	$(c)\frac{39}{40}$	(d) $\frac{18}{23}$		
Q.20 How many n	atural numbers lie	between squares o	f 13 and 14?		
(a) 26	(b) 24	(c) 25	(d) None of these		
Q.21 If $\sqrt{86.49}$ +	$\sqrt{5+k^2} = 12.3$ the	k is equal to			
(a) $\sqrt{10}$	(b) $2\sqrt{5}$	(c) $3\sqrt{5}$	(d) 2		

(c) 0.347

(d) 1.1

Q.10 The value of $\sqrt{0.121}$ up to three of decimal is

(a) 0.011

(b) 0.11

Q.22 If $\sqrt{1369} + \sqrt{0}$	0.0615 + x = 37.25	5 then x is equal to	
(a) 10^{-1}	(b) 10^{-2}	(c) 10^{-3}	(d) 10
Q.23 Find the least	number which mu	st be added to 306	452 to make it a perfect square.
(a) 643	(b) 554	(c) 464	(d) 644
Q.24 The square ro	ot of 0.069696 is		
(a) 0.0264	(b) 2.64	(c) 0.264	(d) 26.4
Q.25 The square of	19 as the sum of tv	wo consecutive inte	egers is
(a) 179+180	(b) 180+181	(c) 182+183	(d) None of these
Q.26 Find whether	55 is a perfect squa	are or not using re	peated subtraction.
Q.27 Find the squar	res of the following	g numbers containi	ing 5 in the unit's place:
(i) 15	(ii) 105		
Q.28 How many nu	mbers lie between	squares of the foll	owing numbers?
(i) 12 and 13	(ii) 25 and 26		i) 99 and 100
Q.29 Find the small	est number that is	divisible by each o	of the numbers 4, 9 and 10.
Q.30 In a right trian	ngle ABC, $\angle B = 90$	0.	
(a) If $AB = 6$ cm	n, $BC = 8$ cm, find A	AC.	
(b) If $AC = 13 c$	em, BC = 5 cm, find	AB.	
Q.31 The area of a s	square field is 101-	$\frac{1}{100}$ square meters.	Find the length of one side of the
field.			
Q.32 Find the value	of $\sqrt{0.09} + \sqrt{0.8}$	$1 + \sqrt{7.29} + \sqrt{98.}$	01
0.33 If $\sqrt{13 - a\sqrt{1}}$	$\frac{1}{\overline{0}} = \sqrt{\overline{\Omega}} + \sqrt{\overline{5}}$ the fit	nd the volue of o	

Q.34 If 3a = 4b and a + b = $7\sqrt{29}$ then find $\sqrt{a^2 + b^2}$.

Q.35 Find the smallest number of seven digits which is a perfect square.