

OSDAV Public School, Kaithal May Test (2025-26) Class: VIII

Subject: Mathematics

SET-A

Time: 1 hr 20 min. M.M.:30

General Instructions:-

I. All questions are compulsory.

Q.No.	Questions	Marks
_	Section -A	
1)	The value of $\sqrt{40 + \sqrt{81}}$ is	1
	(a) 47 (b) 7 (c) 29 (d) 49	
2)	A number which is not a perfect cube, is	1
	(a) 3.43 (b) 0.343 (c) 343 (d) 0.0343	
3)	The value of $\frac{5}{\sqrt{0.25}}$ is	1
	(a) $\frac{1}{10}$ (b) $\frac{5}{10}$ (c) 10 (d) 1 If $5^{x-8} = 1$ then the value of x is	
4)	If $5^{x-8} = 1$ then the value of x is	1
	(a) 8 (b) 1 (c) 9 (d) 2	
5)	(a) 8 (b) 1 (c) 9 (d) 2 Assertion: $\sqrt[3]{\frac{8}{512}} = \frac{1}{4}$	1
	Reason: $a^m \div a^n = a^{m-n}$, where a be any non –zero rational number and m and n be	
	integer.	
	(a) Both assertion and reason are correct and Reason is the correct explanation for assertion.	
	(b) Both assertion and reason are correct and Reason is not the correct explanation	
	for assertion.	
	(c) Assertion is true but reason is false.	
	(d) Both assertion and reason are false.	
	Section -B	
6)	Find the square root of 25 by repeated subtraction method.	2
7)	Evaluate: $\sqrt[3]{1728 \times (-512)}$	2
8)	Find the cube root of 12167 by estimation method.	2
9)	Find the value of $(0.03125)^{-2/5}$	2
	Section -C	
10)	Find the least number which must be subtracted from 18265 to obtain a perfect square.	3
	Also find the square root of the number so obtained.	
11)	Find the value of $[7{(8)^{1/3}+(125)^{1/3}}^2]^{1/3}$	3
12)	Evaluate: $\sqrt[3]{\frac{0.512}{0.343}} \div \sqrt{\frac{0.64}{0.49}} + 1$	3
	Section-D	
13)	Find the smallest number by which 53240 must be divided so that it becomes a perfect	4
-2,	cube. Also find the cube root of the number so obtained.	
14)	Find the square root of $3\frac{3}{5}$ correct up to three places of decimal.	4



OSDAV Public School, Kaithal May Test (2025-26) Class: VIII

Subject: Mathematics

SET-B

Time: 1 hr 20 min. M.M.:30

General Instructions:-

I. All questions are compulsory.

Q.No.	Questions Questions	Marks
	Section -A	
1)	How many non-square numbers lie between 50^2 and 51^2 is (a) 100 (b) 102 (c) 101 (d) 250	1
2)	The value of $\sqrt{249 + \sqrt{49}}$ is	1
3)	(a) 4 (b) 16 (c) 25 (d) 18 If $6^{x-1} = 36$ then the value of x is	1
	(a) 2 (b) 3 (c) 1 (d) 7	
4)	Which of the following is a Pythagorean triplet? (a) 8,15,17 (b) 13,20,21 (c) 8,9,10 (d) 2,3,4	1
5)	Assertion: $\sqrt[3]{\frac{-64}{125}} = \frac{-4}{5}$	1
	 Reason: for a positive integer x, ³√-x = - ³√x (a) Both assertion and reason are correct and Reason is the correct explanation for assertion. (b) Both assertion and reason are correct and Reason is not the correct explanation for assertion. (c) Assertion is true but reason is false. (d) Both assertion and reason are false. 	
	Section -B	
6)	Evaluate: $\sqrt[3]{121} \times \sqrt[3]{297}$	2
7)	Find the cube root of 110592 by estimation method.	2
8)	Find the value of $(0.03125)^{-2/5}$	2
9)	Find the square root of 16 by repeated subtraction method.	2
	Section -C	
10)	Evaluate: $\sqrt[3]{\frac{0.512}{0.343}} \div \sqrt{\frac{0.64}{0.49}} - 1$	3
11)	Find the least number which must be subtracted from 194491 to obtain a perfect square. Also find the square root of the number so obtained.	3
12)	Find the value of $[11\{(125)^{1/3}+(216)^{1/3}\}^2]^{1/3}$	3
	Section-D	
13)	Find the square root of $2\frac{1}{2}$ correct up to three places of decimal.	4
14)	Find the smallest number by which 53240 must be divided so that it becomes a perfect cube. Also find the cube root of the number so obtained.	4



OSDAV Public School, Kaithal May test 2025 Class: VIII

Subject: Maths

Time: 1 hr 30 min. M.M: 30

Q.No.	Questions	Marks
	Section A	
1	(b) 7	1
2	(a) 3.43 or (d) 0.0343	1
3	(c) 10	1
4	(a) 8	1
5)	(b) both Assertion and reason are correct and reason is not the correct explanation for assertion.	1
	Section B	
6)	Stef 1) > 25 - 1 = 24 Stef 2) > 24 - 3 = 21 Stef 3) > 21 - 5 = 16 Stef 4) > 16 - 7 = 9 Stef 5) = 9 - 9 = 0 1 De get 0 in Stef 5 $\sqrt{25} = 5 \rightarrow Ans$	1 ½ + ½
7)		1 for prime factors+ ½ for grouping+ ½ for answer

Set A

8)	Stabl 1st geroup Stabl 1st geroup Stabl 1st geroup Stabl 7 From 1st geroup Ones digit of nor 167 = 7 Culor of 7 = 343 · 3 is the enquired ones place digit Stab 33 From 2nd group \$12167 = 23 (2)3 (3)3 · 2 is the enquired lens flow digit S12167 = 23 Ans.	½ ×4=2
9)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂ 1/ ₂
	Section -C	
10)	25 135 18265 18265 23 82 69 √ 265 1365 1325 40 -: 40 is the smallest m. must be subtracted 18265 -40 18225 18225	1 ½ ½ 1/2

$ \begin{bmatrix} 7 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & $	1 ½
$ \frac{\sqrt{512}}{\sqrt{1000}} \div \frac{343}{1000} \div \sqrt{\frac{64}{100}} \div \frac{49}{100} + 1 $ $ \frac{\sqrt{512}}{\sqrt{1000}} \times \frac{1000}{343} \div \sqrt{\frac{64}{100}} \times \frac{100}{49} + 1 $ $ \frac{\sqrt{512}}{\sqrt{343}} \div \sqrt{\frac{64}{49}} + 1 $ $ = \frac{8}{7} \div \frac{8}{7} + 1 $ $ = \frac{9}{7} \times \frac{7}{8} + 1 $ $ = \frac{1+1}{2} = \frac{1}{2} = \frac{1}{4} $	1+1+1
Coation D	
> 53240 (2 26620 (2 13310 5 6655 (11 121 (11 11 11 11 	2 for prime factors 1/2 for grouping ½ for finding no.+ 1 for cube root
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

3 = 18.	3:6			
	5/ 18%			
	-15		-	1/2
	30 30			/2
	×		7-	
= 3.6	1.8913		1	
= 1	3.60 00 00 00			
		ep ca	0	
	860	- c f - a - L -		
	-234			
369	3600			3
	-3381			
3787	37963°	16		1/2
	- 26509		1	/2
37943	139100		-	
1 2 8 8 1	- 113889			
= \3.6 = 1.80	2587/			
Ans = + convert u	n to 3 decimal of	in the man	1.897	
Sq. sunt of 3.6	1 10 State 11 Mile 1	aut.	1 011	



OSDAV Public School, Kaithal May test 2025.

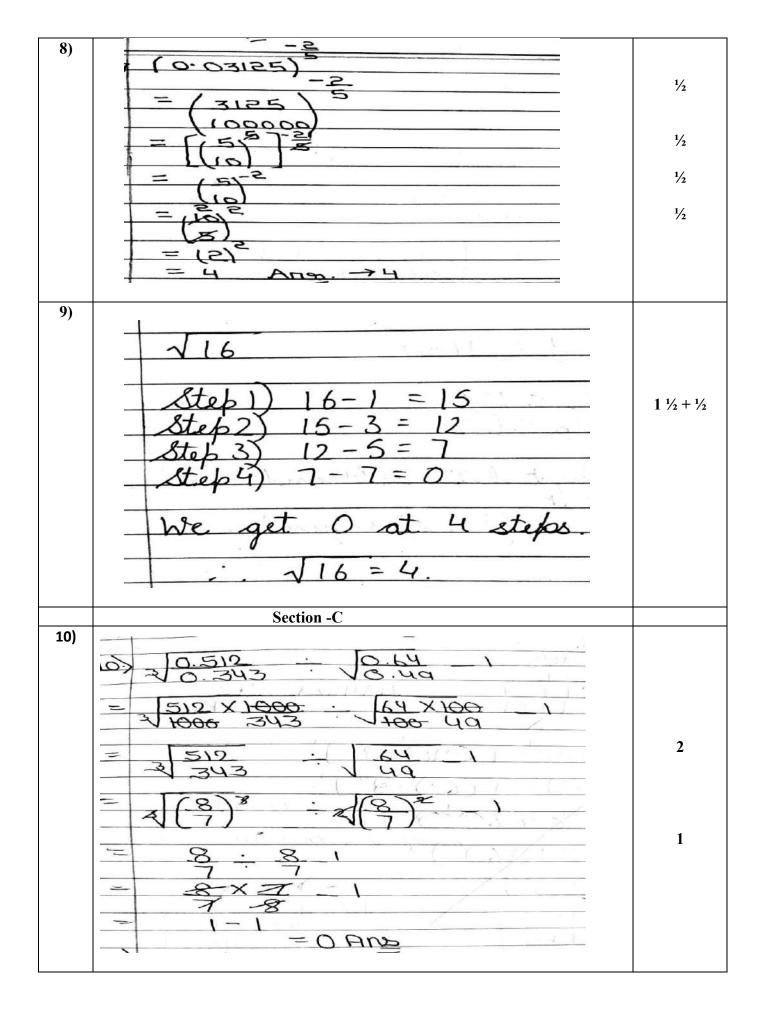
Class: VIII

Set B

Subject: Maths

Time: 1 hr 30 min. M.M: 30

Q.No.	Questions	Marks
	Section A	
1	(a) 100	1
2	(b) 16	1
3	(b)3	1
4	(a) 8,15,17	1
5)	(a) both Assertion and reason are correct and reason is the correct explanation for assertion.	1
	Section B	
6)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 for Prime factor +1/2 for grouping+ ½ for answer
7)	Step 1) IT group T group 110 592 Step 2) In group 1, 45 592 Here digit at over place = 2 Coube of ones flace = (2)3 . 8 is the digit at over place of required cube root. Step 3) In group 2, 110 645110 5 125 (4)3 < 110 5 (5)3 Here, smallest digit between 4 and 5 is 4. in the term place of required cube root 3110 592 = 48 - digit subserved cube	¹/₂ × 4=2



11)		
	194491	
	441	1 ½ for
	4 194491	long division
	84 34414	division
	336 1	
	881 891	
	- 881	
	1 10	1/2
	10 must be subtracted from 194491 to	
	make it a frontect of a	
	194491	
	194481 = -1194481 = 441	1
	: 194481 = 441 - Aug	
	. 35.43	
12)		
	[11] (125) 13 + (216) 13 2 1/3	
	[11 \ (53) \(\sigma\) + (63) \(\sigma\) \(\frac{3}{3}\) \(\frac{3}{3}\)	
	Ju (5) + (6) 32 73 (.	1 ½
	[11 (5+6)2]13	
	511 (11)271/3	1 ½
	[(1)] 1/3	- / -
	1(1)37/3	
	()1)	
	= 11-54.	
	Section -D	

13)	$ \begin{array}{c cccccccccccccccccccccccccccccccc$	3
14)	$\frac{+ \circ}{1.581} \rightarrow A.$ $\frac{1}{3} = 1.581$ $\Rightarrow 53240$	
	2 26620 2 13310 5 6655 (11 121 11 11 -: 5 is the smallest no must be divided 53240 = 2x2x2 x 5 x 1(x11xi)	2 1/2
	5^{1} $= 10648 = (2)^{2} \times (11)^{3}$ $= 10648 = (22)^{2}$ $= 10648 = (22)^{2}$ $= 10648 = 22$ $= 10648 = 22$	1 1/2