

**SET A****INTERNATIONAL INDIAN SCHOOL, RIYADH -SUMMATIVE ASSESSMENT -I****June-2015- 16** TIME 3 HOURS**MATHEMATICS-STD VIII****MAXIMUM MARKS 90**SECTION ACHOOSE THE CORRECT ANSWER

(10X1=10)

1. If  $Y - \frac{1}{4} = \frac{1}{4}$ , then  $y =$  \_\_\_\_\_  
a)  $\frac{1}{4}$  b)  $\frac{1}{2}$  c) 0 d)  $\frac{1}{8}$
2. Rational numbers are not closed under \_\_\_\_\_.  
(a) Multiplication b) Addition c) Subtraction d) Division
3. Which of the following would end with digit 1  
a)  $132^2$  b)  $87^2$  c)  $94^2$  d)  $209^2$
4. Which of the following is not a linear equation?  
a)  $5x = 25$  b)  $x(x-1) = 10$  c)  $\frac{x}{3} + 2 = 15$  d)  $2x - 5 = 5$
5. A rational number greater than  $-2/3$  is \_\_\_\_\_.  
a)  $-7/6$  b)  $-5/6$  c)  $-1/6$  d)  $-4/3$
6. Square root of 0.09 is \_\_\_\_\_.  
a) 0.03 b) 0.3 c) 3 d) none of these
7.  $(0.8)^3 =$  \_\_\_\_\_ a) 51.2 b) 5.12 c) 0.512 d) 0.24
8. If 'n' is odd, then  $(1+3+5+7+\dots$  to n terms) is equal to \_\_\_\_\_.  
a)  $n^2 + 1$  b)  $n^2 - 1$  c)  $n^2$  d)  $2n^2 + 1$
9. By what least number should 648 must be multiplied to get a perfect cube.  
a) 3 b) 6 c) 9 d) 8
10. Multiplicative inverse of  $-1 \times \frac{-3}{5}$  is \_\_\_\_\_.  
a)  $\frac{-3}{5}$  b)  $\frac{5}{3}$  c)  $\frac{-5}{3}$  d)  $\frac{3}{5}$

SECTION BCHOOSE THE CORRECT ANSWER

(2X5=10)

11. Which of the following is a Pythagorean triplet?  
a) (2,3,5) b) (5,7,9) c) (8,15,17) d) (6,9,11)
12. Solution of the equation  $\frac{x}{5} + \frac{2}{5} = 10$  is  
a) 48 b)  $\frac{48}{5}$  c)  $\frac{48}{25}$  d)  $\frac{8}{5}$
13.  $\sqrt[3]{216 \times 64} =$  \_\_\_\_\_. a) 64 b) 32 c) 24 d) 36

14. A rational number between  $\frac{-2}{3}$  and  $\frac{1}{4}$  is

- a)  $\frac{5}{12}$  b)  $\frac{-5}{12}$  c)  $\frac{7}{12}$  d)  $\frac{2}{3}$

15. Which of the following number is in standard form?

- a)  $\frac{-12}{26}$  b)  $\frac{28}{-103}$  c)  $\frac{-9}{16}$  d)  $\frac{-15}{35}$

### SECTION C

ANSWER THE FOLLOWING(2X8= 16)

16. Name the property under multiplication used in each of the following.

a)  $\frac{-15}{7} \times \frac{7}{-15} = 1$

b)  $\frac{-12}{5} \times \frac{3}{4} = \frac{3}{4} \times \frac{-12}{5}$

17. Find a number which when multiplied by 7 and then reduced by 3 equal to 53.

18. Write any two properties of square numbers.

19. Verify  $-(-x) = x$  for  $x = \frac{-14}{15}$ .

20. Express  $23^2$  as the sum two consecutive integers.

21. Find the cube root of 17576 through estimation.

22. Find the smallest number by which 384 must be divided to obtain a perfect cube.

23. Find the square root of 7.29

### SECTION D

ANSWER THE FOLLOWING( 3 X 10 = 30 )

24. Represent  $\frac{-5}{3}$ ,  $\frac{2}{3}$ , 1 on a number line.

25. Two angles of a triangle are in the ratio 4 : 5. If the sum of these angles is equal to the third angle, then find the measure of each angle of this triangle.

26. Solve  $\frac{5}{2} + \frac{y}{7} = \frac{2y}{7} - \frac{1}{7}$

27. The students of a class arranged a picnic. Each student contributed as many Rupees as the number of students in the class. If the total contribution is ₹.1156, find the strength of the class.

28. Find the square root of 121 by repeated subtraction.

29. Find the length of the side of a square whose area is  $576\text{m}^2$

30. Simplify and solve the following equation.

$$15(y - 4) - 2(y - 2) = -5(y + 6)$$

31. Raj makes a cuboid of plasticine of sides 15cm, 30cm, 15cm. How many such Cuboids will he need to form a cube?

32. Find the smallest number that must be subtracted from 2560 to get a perfect Square.
33. Find the cube root of 4096 by prime factorization method.

SECTION E

ANSWER ANY 6 OF THE FOLLOWING ( 6 X 4 = 24 )

34. Using appropriate property, find  $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$ .
35. The difference between two whole numbers is 66. The ratio of the numbers is 2 : 5  
Find the two numbers.
36. Find the smallest square number which is divisible by each of the numbers 8, 10, 15 and 20.
37. Find the smallest number by which 600 should be multiplied so as to get a perfect square. Also find the square root of the square so obtained.
38. Solve  $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$ .
39. Find 8 rational numbers between  $-\frac{2}{3}$  and  $\frac{1}{2}$ .
40. Find the greatest 4 digit number which is a perfect square.

BEST OF LUCK