

**SET B****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. A rational number greater than  $-2/3$  is \_\_\_\_\_  
a)  $-7/6$  b)  $-5/6$  c)  $-1/6$  d)  $-4/3$
2. Multiplicative inverse of  $-1 \times \frac{-3}{5}$  is \_\_\_\_\_.  
a)  $\frac{-3}{5}$  b)  $\frac{5}{3}$  c)  $\frac{-5}{3}$  d)  $\frac{3}{5}$
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. If  $Y - \frac{1}{4} = \frac{1}{4}$ , then  $y =$  \_\_\_\_\_  
a)  $\frac{1}{4}$  b)  $\frac{1}{2}$  c) 0 d)  $\frac{1}{8}$
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. Rational numbers are not closed under \_\_\_\_\_.  
(a) Multiplication b) Addition c) Subtraction d) Division

SECTION BCHOOSE THE CORRECT ANSWER

(2X5=10)

11. Which of the following number is in standard form?  
a)  $\frac{-12}{26}$  b)  $\frac{28}{-103}$  c)  $\frac{-9}{16}$  d)  $\frac{-15}{35}$
12. 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)  $\frac{2}{3}$
13.  $\sqrt[3]{216 \times 64} =$  \_\_\_\_\_. a) 64 b) 32 c) 24 d) 36

14. Solution of the equation  $\frac{x}{5} + \frac{2}{5} = 10$  is

- a) 48 b)  $\frac{48}{5}$  c)  $\frac{48}{25}$  d)  $\frac{8}{5}$

15. Which of the following is a Pythagorean triplet?

- a) (2,3,5) b) (5,7,9) c) (8,15,17) d) (6,9,11)

### SECTION C

ANSWER THE FOLLOWING(2X8= 16)

16. Express  $23^2$  as the sum two consecutive integers.
17. Find the square root of 7.29
18. Write any two properties of square numbers.
19. Verify  $-(-x) = x$  for  $x = \frac{-14}{15}$ .
20. Name the property under multiplication used in each of the following.
  - a)  $\frac{-15}{7} \times \frac{7}{-15} = 1$
  - b)  $\frac{-12}{5} \times \frac{3}{4} = \frac{3}{4} \times \frac{-12}{5}$
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 a number which when multiplied by 7 and then reduced by 3 equal to 53

### SECTION D

ANSWER THE FOLLOWING( 3 X 10 = 30 )

24. Raj makes a cuboid of plasticine of sides 15cm, 30cm, 15cm. How many such Cuboids will he need to form a cube?
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. Find the cube root of 4096 by prime factorization method.
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. Represent  $-\frac{5}{3}, \frac{2}{3}, 1$  on a number line.

32. Find the smallest number that must be subtracted from 2560 to get a perfect Square.
33. Solve  $\frac{5}{2} + \frac{y}{7} = \frac{2y}{7} - \frac{1}{7}$

SECTION E

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

34. Find the greatest 4 digit number which is a perfect square.
35. Find 8 rational numbers between  $\frac{-2}{3}$  and  $\frac{1}{2}$ .
36. The difference between two whole numbers is 66. The ratio of the numbers is 2 : 5  
Find the two numbers
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 the smallest square number which is divisible by each of the numbers 8, 10, 15 and 20.
40. Using appropriate property, find  $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$ .

BEST OF LUCK