

MATHEMATICS
SAMPLE TEST PAPER (SEMSTER I)
CLASS VII

Class:7

Max Mks:45

Time :2hrs

No of pages: 2

General Instructions:

- ▲ All questions are compulsory.
- ▲ Questions 1 to 5 carry 1 mark each.
- ▲ Questions 6 to 16 carry 2 mark each.
- ▲ Questions 17 to 22 carry 3 mark each.

I. Fill in the blanks

1. $|-18| + |-13|$ _____ $(-18) - (-13)$
2. two equivalent fraction of $\frac{5}{7}$
3. $356\text{m} =$ _____ $\text{dam} =$ _____ km
4. -8 in $\frac{p}{q}$ form _____
5. $9^x = 6561$, $x =$ _____

II. Do as directed:

6. Evaluate $-9 * (-8) * (-3)$
7. Verify that for $a = 2$, $b = 4$, $c = 6$ $a \div (b+c) \neq (a \div b) + (a \div c)$
8. Arrange in descending order

$$\frac{8}{9}, \frac{7}{11}, \frac{3}{14}$$

9. Multiply $5\frac{2}{3} * 4\frac{5}{2}$

10. simplify $(3*9+6*7)$ of $(65 \div 13 - 2)$

11. The product of two integer is -168. If one of the integer is 14, find the other.

12. Simplify $1\frac{1}{14} * 3\frac{1}{2} + \frac{7}{8} \div 1\frac{2}{7}$

13. Give the equivalent rational number

$$\frac{-6}{10} \text{ and } \frac{-21}{35}$$

14. Find the fourth proportional of 42,35,18

15. solve the equation and verify your result $17x+25 = 14x-8$

16. Write the greatest and smallest rational numbers

$$\frac{4}{5}, \frac{8}{10}, \frac{11}{30}, \frac{-5}{20}$$

III. Answer the following :

17. simplify

$\frac{(5)^3 \times (2+5)^3 \times 2^4}{5^7 \times (2)^2 \times 5^8}$

18. Train A covers a distance of 520km in 8 hr, train B covers 350km in $3\frac{1}{2}$ hours. Which train is moving with greater speed

19. solve the equation by applying the rules and verify the result

$$x+6 = 8$$

20. In a class, the highest score is 12 less than two times the lowest score. If the highest score is 83, write an equation to find the lowest score.

21. Find the value of the expression when $a = -1$ and $b = 3$

$$a^3 - 3a^2b^2 - 6ab^3 + 9b^3$$

22. From the sum of $5x+7y-12$ and $3x-5y+2$ subtract the sum of $2x-7y-1$ and $-6x+3y+9$