



Date: /07/22  
GRADE: VIII

CPE - 01 (2022-23)  
MATHEMATICS

Max marks: 20  
Time: 1 Hour

**Instructions:**

- 1) Questions 1 to 10 carries 1 mark each.
- 2) Questions 11 and 12 carries 2 marks each.
- 3) Questions 13 and 14 carries 3 marks each.

| SL. NO. | QUESTIONS   | MARKS |
|---------|---|-------|
| 1       | The standard form of $\frac{-5}{30}$ is<br>(a) $\frac{5}{30}$<br>(b) $\frac{1}{6}$<br>(c) $\frac{-1}{6}$<br>(d) $\frac{1}{7}$   | 1     |
| 2       | For rational numbers a, b, c: $a + (b + c) = (a + b) + c$ . This is known as<br>(a) Closure property<br>(b) Commutative Property<br>(c) Distributive Property<br>(d) Associative Property | 1     |
| 3       | The absolute value of $\frac{-3}{-7}$ is<br>(a) $\frac{-3}{7}$<br>(b) $\frac{3}{7}$<br>(c) $\frac{3}{-7}$<br>(d) None of these  | 1     |
| 4       | If $97 \div a = -1$ , what is the value of a?<br>(a) - 97<br>(b) 97<br>(c) 0<br>(d) 1   | 1     |

|                  |   |                 |
|------------------|---|-----------------|
| <p><b>5</b></p>  | <p>Which of the following is an irrational number?</p> <p>(a) 3.141414.....<br/> (b) 2.756<br/> (c) 0.111111.....<br/> (d) 9.734570231894.....</p>  | <p><b>1</b></p> |
| <p><b>6</b></p>  | <p>The multiplicative identity of rational numbers is:</p> <p>(a) - 1<br/> (b) 1<br/> (c) 0<br/> (d) 2</p>  | <p><b>1</b></p> |
| <p><b>7</b></p>  | <p>Which of the following will be the numerator of the fraction with denominator 91 equivalent to <math>\frac{6}{-7}</math> ?</p> <p>(a) 78<br/> (b) 72<br/> (c) - 78<br/> (d) - 72</p>   | <p><b>1</b></p> |
| <p><b>8</b></p>  | <p>Which of the following is arranged in ascending order?</p> <p>(a) <math>\frac{-1}{30}, \frac{1}{20}, \frac{-1}{12}, \frac{1}{10}</math><br/> (b) <math>\frac{-1}{12}, \frac{-1}{30}, \frac{1}{10}, \frac{1}{20}</math><br/> (c) <math>\frac{-1}{12}, \frac{-1}{30}, \frac{1}{20}, \frac{1}{10}</math><br/> (d) None of these</p> | <p><b>1</b></p> |
| <p><b>9</b></p>  | <p>Which of the following is true?</p> <p>(a) <math>-7 &gt; 3</math><br/> (b) <math> -7  &lt;  -3 </math><br/> (c) <math> -7  &gt;  -3 </math><br/> (d) <math>3 &lt; -7</math></p>  | <p><b>1</b></p> |
| <p><b>10</b></p> | <p>Which of the following rational number lie between <math>\frac{-1}{4}</math> and <math>\frac{1}{4}</math> ?</p> <p>(a) <math>\frac{4}{3}</math></p>  | <p><b>1</b></p> |

|    |   |                                      |
|----|---|--------------------------------------|
|    | (b) $\frac{-1}{2}$<br>(c) $\frac{1}{2}$<br>(d) $\frac{-1}{5}$   |                                      |
| 11 | Represent $\frac{1}{3}$ and $-1\frac{1}{3}$ on a number line.   | 2                                    |
| 12 | Ravi has a 60 cm long ribbon and decides to cut into 3 cm each. He also has another ribbon of 20 cm length and decides to cut into 5 mm each. What will be the sum of the number of cuts so formed?   | 2                                    |
| 13 | (a) Check if the following pair of rational numbers are equal or not?<br>$\frac{-3}{5}$ and $\frac{27}{-45}$<br>(b) Find $\left  \frac{-1}{4} - \frac{(-1)}{9} \right $<br>(c) Compare $\frac{-7}{15}$ and $\frac{2}{-3}$                                     | 3                                    |
| 14 | (a) Simplify $\frac{7}{8} \times \frac{48}{49} \times \frac{-14}{18} \times \frac{-3}{20}$ and write in the standard form.<br>(b) If Raghav has $1\frac{1}{2}$ kg of chocolates and Suhail has $2\frac{1}{4}$ kg of chocolates, what is their total quantity? | $1\frac{1}{2}$<br><br>$1\frac{1}{2}$ |