➤ Choose The Right Answer From The Given Options.[1 Marks Each]

[10]

1. Tick (\checkmark) the correct answer the following:

The product of two numbers is $\frac{-16}{35}$. If one of the numbers is $\frac{-15}{14}$ then the other is-

(A) $\frac{-2}{5}$

(B) $\frac{8}{15}$

(C) $\frac{32}{75}$

- (D) $\frac{-8}{3}$
- 2. Which of the following is an example of distributive property of multiplication over addition for rational numbers.

(A)
$$-\frac{1}{4} imes \left\{ \frac{2}{3} + \left(\frac{-4}{7} \right) \right\} = \left[-\frac{1}{4} imes \frac{2}{3} \right] + \left[-\frac{1}{4} imes \left(\frac{-4}{7} \right) \right]$$

(B)
$$-\frac{1}{4} imes \left\{ \frac{2}{3} + \left(\frac{-4}{7} \right) \right\} = \left[\frac{1}{4} imes \frac{2}{3} \right] - \left(\frac{-4}{7} \right)$$

(C)
$$-\frac{1}{4} \times \left\{ \frac{2}{3} + \left(\frac{-4}{7} \right) \right\} = \frac{2}{3} + \left(-\frac{1}{4} \right) \times \frac{-4}{7}$$

(D)
$$-\frac{1}{4} imes \left\{ \frac{2}{3} + \left(\frac{-4}{7} \right) \right\} = \left\{ \frac{2}{3} + \left(\frac{-4}{7} \right) \right\} - \frac{1}{4}$$

- 3. One (1) is:
 - (A) The identity for addition of rational numbers.
 - (B) The identity for subtraction of rational numbers.
 - (C) The identity for multiplication of rational numbers.
 - (D) The identity for division of rational numbers.
- 4. Which of the following statement is true?
 - (A) The difference of two rational numbers is always a rational number.
 - (B) Addition of two rational numbers is associative.
 - (C) Addition of two rational numbers is commutative.
 - (D) All of the above.
- 5. Tick (\checkmark) the correct answer the following:

$$\left(3+\frac{5}{-7}\right) = ?$$

(A) $\frac{-16}{7}$

(B) $\frac{16}{7}$

(C) $\frac{-26}{7}$

(D) $\frac{-8}{7}$

- 6. $a \times (b \times c) = (a \times b) \times c$ is called:
 - (A) Associative law for addition

(B) Associative law for multiplication

(C) Commutative law for addition

- (D) Commutative law for multiplication
- 7. Which of the following numbers lies in the middle of $\frac{3}{4}$ and $\frac{7}{4}$:
 - (A) 5.0

(B) 3.0

(C) 2.5

- (D) 1.25
- 8. A number which can be expressed as $\frac{p}{q}$ where p and q are integers and $q \neq 0\,$ is:
 - (A) Natural number.
- (B) Whole number.
- (C) Integer.
- (D) Rational number.

9. Mark (\checkmark) against the correct answer of the following:

What should be added to $\frac{-3}{5}$ get $\frac{-1}{3}$?

(A) $\frac{4}{5}$	(B) $\frac{8}{15}$	(C) $\frac{4}{15}$	(D) $\frac{2}{5}$	
^{10.} Which of the following numbers is the simplest form of $\frac{3}{4} + \left(\frac{-1}{4}\right) + \left(\frac{-5}{4}\right)$				
(A) $\frac{9}{4}$	(B) $-\frac{3}{4}$	(C) $-\frac{9}{4}$	(D) $\frac{7}{4}$	
> Questions With Calculation.[2 Marks Each] [8]				
^{11.} Find $\frac{3}{7}+\left(\frac{-6}{11}\right)+\left(\frac{-8}{21}\right)+\left(\frac{5}{22}\right)$				
12. $\left(\frac{-4}{3} \times \frac{12}{-5}\right) + \left(\frac{3}{7}\right)$	$\times \frac{21}{15}$			
13. The cost of $7\frac{2}{3}$ metres of rope is Rs $12\frac{3}{4}$ Find its cost per metre.				
14. Simplify:	0 \			
$\left(\frac{13}{9} imes \frac{-15}{2}\right) + \left(\frac{7}{3}\right)$	$\left(\frac{8}{5}\right) + \left(\frac{3}{5} \times \frac{1}{2}\right)$			
➤ Questions With Calculation.[3 Marks Each]				[12]
15. Verify associativity of addition of rational numbers i.e., $(x + y) + z = x + (y + z)$, when: $x = -2, y = \frac{3}{5}, z = \frac{-4}{3}$				
16. Amit earns Rs. 32000 per month. He spends $\frac{1}{4}$ of his income of food; $\frac{3}{10}$ of the remainder on				
house rent and $\frac{5}{21}$ of the remainder on the education of children. How much money is still left with him?				
17. Arrange the following rational numbers in descending order:				
$\frac{-3}{10}$, $\frac{7}{-15}$, $\frac{-11}{20}$, $\frac{17}{-30}$ 18. Find three rational numbers between $\frac{2}{3}$ and $\frac{3}{4}$.				