

# BHARAT SCHOOL OF BANKING

## MATHEMATICAL OPERATION AND SYMBOL NOTATION

Directions (1): In this question, if the given interchanges are made in signs and numbers, which one of the four equations would be correct?

Q1. Given interchanges : Signs - and  $\times$  and numbers 3 and 6

- (a)  $6 - 3 \times 2 = 9$
- (b)  $3 - 6 \times 8 = 11$
- (c)  $6 \times 3 - 4 = -21$
- (d)  $3 \times 6 - 4 = 33$

Ans.(c)

Sol. On interchanging - and  $\times$  and 3 and 6 in (c), we get the equation as:  
 $3 - 6 \times 4 = 3 - 24 = -21$  which is true.

Directions (2-3): In each of the following questions, the given equation becomes correct due to the interchange of two signs. One of the four alternatives under it specifies the interchange of signs in the equation which when made will make the equation correct. Find the correct alternative.

Q2.  $9 + 5 \div 4 \times 3 - 6 = 12$

- (a) + and  $\times$
- (b)  $\div$  and  $\times$
- (c)  $\div$  and -
- (d) + and -

Ans.(c)

Sol. On interchanging  $\div$  and -, we get:

Given expression =  $9 + 5 - 4 \times 3 \div 6 = 9 + 5 - 4 \times 1/2 = 9 + 5 - 2 = 12$

Q3.  $6 + 6 \div 6 - 6 \times 6 = 6$

- (a) + and -
- (b) + and  $\div$
- (c) + and  $\times$
- (d)  $\div$  and +

Ans.(c)

Sol. On interchanging + and  $\times$ , we get the equation as:

$6 \times 6 \div 6 - 6 + 6 = 6$  or  $6 \times 1 - 6 + 6 = 6$  or  $6 = 6$ , which is true.

Directions (4): In this question, different alphabets stand for various symbols are indicated below:

Addition : O Subtraction : M Multiplication : A

Division : Q Equal to : X Greater than : Y

Less than : Z

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Out of the four alternatives given in these questions, only one is correct according to the above letter symbols. Identify the correct answer.

Q4.

- (a) 2 Z 2 A 4 O 1 A 4 M 8
- (b) 8 Y 2 A 3 A 4 Q 2 A 4
- (c) 10 X 2 O 2 A 4 O 1 M 2
- (d) 12 X 4 O 2 Q 1 A 4 A 2

Ans.(a)

Sol. Using the proper notations in (a), we get the statement as:

$$= 2 < 2 \times 4 + 1 \times 4 - 8$$

$$= 2 < 4$$

which is true.

Directions (5-6): If  $>$  denotes  $+$ ,  $<$  denotes  $-$ ,  $\div$  denotes  $\div$ ,  $\wedge$  denotes  $\times$ ,  $-$  denotes  $=$ ,  $\times$  denotes  $>$  and  $=$  denotes  $<$ , choose the correct statement in each of the following questions.

Q5.

- (a)  $13 > 7 < 6 + 2 = 3 \wedge 4$
- (b)  $9 > 5 > 4 - 18 + 9 > 16$
- (c)  $9 < 3 < 2 > 1 \times 8 \wedge 2$
- (d)  $28 + 4 \wedge 2 = 6 \wedge 4 + 2$

Ans.(b)

Sol. Using the proper notations in (b), we get the statement as:

$$9 + 5 + 4 = 18 \div 9 + 16 \text{ or } 18 = 18, \text{ which is true}$$

Q6.

- (a)  $7 > 7 < 7 + 7 = 14$
- (b)  $7 \wedge 7 > 7 + 7 = 7 \wedge 7 > 1$
- (c)  $7 < 7 + 7 = 6$
- (d)  $7 + 7 > 7 = 8$

Ans.(a)

Sol. Using the proper notations in (a), we get the statement as:

$$7 + 7 - 7 \div 7 < 14 \text{ or } 13 < 14, \text{ which is true}$$

Directions (7): In this question, some symbols are represented by letters as shown below:

+	-	$\times$	$\div$	=	>	<
B	G	E	C	D	A	F

Now, identify the correct expression.

Q7.

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- (a) 15 B 5 G 8 B 4 G 6 F 3
- (b) 15 C 15 B 8 F 4 B 6 C 3
- (c) 15 A 5 E 8 C 4 B 6 E 3
- (d) 15 C 5 F 8 C 4 B 6 C 3

Ans.(d)

Sol. Using the proper notations in (d), we get the statement as:

$15 \div 5 < 8 \div 4 + 6 \div 3$  or  $3 < 2 + 2$  or  $3 < 4$ , which is true

Directions (8): In this question, different alphabets stand for various symbols are indicated below:

Addition : O Subtraction : M Multiplication : A

Division : Q Equal to : X Greater than : Y

Less than : Z

Out of the four alternatives given in these questions, only one is correct according to the above letter symbols. Identify the correct answer.

Q8.

- (a) 3 O 2 X 2 Q 1 A 3 O 1
- (b) 6 M 2 Y 10 Q 2 A 3 O 1
- (c) 10 A 2 Z 2 Q 2 A 10 Q 2
- (d) 10 A 2 Y 2 Q 1 A 10 Q 2

Ans.(d)

Sol. Using the proper notations in (d), we get the statement as:

$$= 10 \times 2 > 2 \div 1 \times 10 \div 2$$

$$= 20 > 10$$

Q9. If P denotes +, Q denotes -, R denotes  $\times$  and S denotes  $\div$ , which of the following statements is correct?

- (a)  $36 R 4 S 8 Q 7 P 4 = 10$
- (b)  $16 R 12 P 49 S 7 Q 9 = 200$
- (c)  $32 S 8 R 9 = 160 Q 12 R 12$
- (d)  $8 R 8 P 8 S 8 Q 8 = 57$

Ans.(d)

Sol. Using the proper notations in (d), we get the statement as:

$$8 \times 8 + 8 \div 8 - 8 = 8 \times 8 + 1 - 8 = 64 + 1 - 8 = 65 - 8 = 57$$

Q10. If P means 'division', T means 'addition', M means 'subtraction' and D means 'multiplication' then what will be the value of the expression  $12 M 12 D 28 P 7 T 15$ ?

- (a) -30
- (b) -15
- (c) -21

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(d) 45

Ans.(c)

Sol. Using the correct symbols, we have:

Given expression =  $12 - 12 \times 28 \div 7 + 15$

=  $12 - 48 + 15 = 27 - 48 = -21$

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