MATHEMATICAL OPERATIONS

EXERCISE 11A

For SSC GD & MTS Exams

1.	Which two numbers should be interchanged to make the		9.	In a certain language, if '+' means 'multiplication',				
	given equation correct? ssc MTS 18/10/2021 (Shift-3)			'x' means 'division', '÷' means 'subtraction', and '-' means				
	$14 + 32 - 56 \div 28 \times 5 = 40$			'addition', then find the value				
	(a) 28 and 32	(b) 5 and 14		(Apply BODMAS)	SSC MTS 14/10/2021 (Shift-2)			
		(d) 28 and 14		$18 \div 6 \times 3 - 4 + 5$				
2.	If A denotes 'addition', B de			(a)36 (b)1	(c) 28 (d) 40			
		denotes 'subtraction', and D denotes 'division', then		In a certain language, if the digits 7 and 2 a				
	what will be the value of t			interchanged and 3 and 4 c				
		SSC MTS 18/10/2021 (Shift-3)		is the value of the following				
	14 B (18 D 3) A 5 B 7 C 12 B (2			SSC MTS 14/10/2021 (Shift-2				
		(c) 41 (d) 53		$52 \div 4 - 7 \times 5 + 3$				
3.	If ÷ is interchanged with +, a	(-)		(a) 33 (b) 17	(c) 15 (d) 13			
0.	-, then which of the following		11.	72*4*15*3*12=51	SSC MTS 14/10/2021 (Shift-1)			
	ssc MTS 18/10/2021 (Shift-2)			(a) ÷, +, ×, - (b) -, +, ÷, ×				
	(a) $24 \times 84 + 12 \div 16 - 7 = 129$			(c) ÷, +, -, ×	$(d) + \dot{+} \dot{+} \dot{+} \dot{-}$			
	(b) $24 + 84 \div 12 - 16 \times 7 = 129$		12.	Which two signs should be interchanged to make t				
	(b) $24 + 84 \div 12 = 10 \times 7 = 128$ (c) $24 - 84 \div 12 + 16 \times 7 = 128$			given equation correct? SSC MTS 14/10/2021 (Shift-1)				
	. ,			$36-6 \div 6 \times 6 + 30 = 0$				
4	(d) $24 - 84 \div 12 + 16 + 7 = 129$ Which two digits and signs can be interchanged so			(a) $-$ and $+$	(b)+ and ×			
4.	as to balance the given equ			(c) ÷ and ×	(d) - and ÷			
	as to balance the given equ	SSC MTS 18/10/2021 (Shift-2)	13.	Select the correct sequence				
	$46 \times 6 + 32 - 12 \div 8 = -34$	35C M15 18/10/2021 (SHIIT-2)	10.	sequentially replace the lett				
		(1)0		balance the given equation.				
		(b) 3 and 2; × and –		(38 A 17) B 9 C 117 D 13 E 94				
_	(c) 6 and 2; + and × (d) 4 and 6; ÷ and +							
5.	In a certain language, if 4 and			(a) ×, ÷, +, -, -	(b)+, ÷, ×, +, -			
		d 9 are interchanged, then which of the following pers will be the highest? ssc MTS 18/10/2021 (shift-1)		(c) -, ×, +, ÷, - (d) ×, -, ÷, +, - Which two digits can be interchanged so as to balance				
	_		14.					
		(b) 4555		the given equation? $186 \div 17 + 104 - 12 \times 3 = 16$	SSC MTS 12/10/2021 (Shift-1)			
		(d)7458			(·) -			
6.	In a certain language, if '+' r			(a) 2 and 7	(b)8 and 3			
	'subtraction', ' $\dot{\div}$ ' means 'addition', and '-' means 'multiplication', then find the value of the following expression (apply BODMAS). ssc MTS 18/10/2021 (Shift-1) $24 \div 6 - 2 + 4 \times 2$		15.	(c) 6 and 4	(d) 4 and 7			
				Which two signs should be interchanged to make the				
				given equation correct? ssc MTS 11/10/2021 (shift-3)				
		() 10 () 10		$3 \div 6 - 2 + 8 \times 4 = 18$				
_		(c) 12 (d) 10		(a) ÷ and -	(b)+ and ÷			
7.	Which two numbers and sign			(c) ÷ and ×	(d)+ and -			
	as to balance the given equ		16.	7*2*5*4*2*15	SSC MTS 11/10/2021 (Shift-3)			
	$18 \times 7 \div 36 + 78 - 14 = 86$	SSC MTS 14/10/2021 (Shift-3)		(a) ÷, -, +, ×, =	(b) -, ÷, +, ×, =			
		(.)		(c) +, ×, -, \div , =	(d) \times , -, +, \div , =			
		(b)1 and 4; × and ÷	17.	Which two signs should be	interchanged to make the			
		(d) 4 and 3; ÷ and –		given equation correct?	SSC MTS 11/10/2021 (Shift-2)			
8.	Select the correct sequence of mathematical signs to			$8 \times 4 - 7 + 8 \div 2 = 35$				
	replace the * signs so as to balance the given equation.			(a) + and -	(b)÷ and -			
		SSC MTS 14/10/2021 (Shift-3)		(c) - and ×	(d)× and ÷			
	78*26*4*13*28 = 58		18.	17*3*6*2*7*55	SSC MTS 11/10/2021 (Shift-2)			
		(b)÷+×-		(a) ×, -, ÷, +, =	(b) -, ÷, +, ×, =			
	$(C) - \div + \times$	$(q) + x \div -$		(c) ÷, +, -, ×, =	(d) -, +, \div , ×, =			

2 ■ SSC Reasoning 19. If A is coded as '+', B is coded as 'x', C is coded as '÷' and (a) - 88(d) D is coded as '-', then SSC MTS 22/08/2019 (Shift-1) (c) 36 (d) 20 18 A 6 B 2 C 16 B 4 D 21 = ? If 'F' means '+', 'P' means 'x', 'T' means '÷' and 'K' means '-' then 40 T 8 F 16 P 4 K 13 = ? (a)2(b) -1(c)0(d)1 SSC MTS 20/08/2019 (Shift-2) 20. In order to make the given equation correct, which two will have to be interchanged? (a) 56 SSC MTS 21/08/2019 (Shift-3) (c) 75 (d)69 $64 \times 2 + 24 \div 3 - 8 = 96$ 29. Which two signs should be interchanged to make the below equation mathematically correct? (a) -, \times (b)+,÷ SSC MTS 20/08/2019 (Shift-1) (c) ×, ÷ (d)-, + $75 \div 5 \times 15 - 3 + 10 = 60$ 21. Which two numbers are interchanged to make the given SSC MTS 21/08/2019 (Shift-3) equation correct? (a) - +(b)-, × $15 - 5 + 75 \div 30 \times 2 = 35$ (c) -, ÷ (d) ×, ÷ Which two numbers should be interchanged to make (a) 5, 15 (b) 30, 15 the below equation mathematically correct? (c) 2, 5 (d)5,30 $3 \times 6 + 72 \div 8 - 24 = 12$ SSC MTS 20/08/2019 (Shift-1) 22. Which two numbers need to be interchanged to make the given equation correct? (a) 6, 8 (b)24.3SSC MTS 21/08/2019 (Shift-2) (c) 72, 24 (d)3,8 $16 \times 1792 \div 7 + 9 - 15 = 778$ Which two signs need to be interchanged to make the given equation correct? SSC MTS 19/08/2019 (Shift-3) (a) 16, 7 (b) 16, 9 $104 \div 8 + 6 - 9 \times 3 = 34$ (c) 15, 9 (d) 16, 15 23. Which two signs need to be interchanged to make the (a) +, -(b) \div , + $(d)+, \times$ given equation correct? SSC MTS 21/08/2019 (Shift-2) (c) -, \times $27 - 3 \times 2 \div 13 + 9 = 14$ 32. Which two numbers need to be interchanged to make the given equation correct?ssc MTS 19/08/2019 (Shift-3) (a) ×, ÷ (b)-,÷ $96 \times 6 - 8 + 2 + 3 = 768$ $(c) - \times$ (d)÷,+ (a) 6, 8 (b)6,324. Which two numbers should be interchanged to make (c) 2, 3 (d) 96.8 the below equation mathematically correct? SSC MTS 21/08/2019 (Shift-1) 8*5*9*31 SSC MTS 19/08/2019 (Shift-2) $144 + 108 \div 12 - 16 \times 6 = 24$ (a) -, \times , = (b) -, =, \times $(d) \times, -, =$ (a) 12, 6 (b) 108, 144 $(c) = \times, -$ In the following question, which of the two signs will be (c) 108, 6 (d)12,16 interchanged to get the correct equation? 25. Which two signs could be interchanged to make the SSC MTS 19/08/2019 (Shift-2) below equation mathematically correct? SSC MTS 21/08/2019 (Shift-1) $119 - 21 \div 7 + 117 \times 3 = 11$ $60 - 4 \times 12 \div 3 + 8 = 88$ (a) – and \times $(b) \div and +$ (c) \div and \times (d) - and + (a) + x(b) x, ÷ If P denotes '÷', Q denotes '+', R denotes '×' and S denotes (c) -, + $(d)+, \div$ '-', then what is the value of the following equation? 26. Find out the two signs to be interchanged for SSC MTS 19/08/2019 (Shift-2) making following equation correct? 100 S 12 P 72 R 6 Q 5 = ? SSC MTS 20/08/2019 (Shift-3) $96 - 16 \div 4 \times 2 + 8 = 6$ (a) 140 (b)105 (c) 104 (d)134 (a) \times and \div $(b) + and \times$ 36. If '#' means '+', '@' means 'x', '&' means '/' and '\$' means (c) + and ÷ (d) - and \div '-' then 200 & 5 @ 3 \$ 20 # 5 = ? 27. If '+'means '÷', '-' means 'x', 'x' means '+' and '÷' means SSC MTS 19/08/2019 (Shift-2) '-', then what will be the value of: SSC MTS 20/08/2019 (Shift-2) (a) 105 (b)100 $7 - 2 \times 14 \div 96 + 12 = ?$ (c) 85 (d)120

SOLUTIONS

(d) In given equation,

$$14 + 32 - 56 \div 28 \times 5 = 40$$

We interchange the values 14 and 28,

 $28 + 32 - 56 \div 14 \times 5 = 40$

LHS = RHS

(a) in given equation,

14B (18 D3) A5 B7C 12B (24D4)

Put the mathematical operations,

$$\Rightarrow$$
 14 × (18 ÷ 3) + 5 * 7 - 12 * (24 ÷ 4)

 \Rightarrow 14 × 6 + 35 - 72

 \Rightarrow 119 - 72 = 47

(a) in given equation,

Interchange the signs $24 \times 84 + 12 \div 16 - 7 = 129$

 $24 - 84 \div 12 + 16 \times 7 = 129$

LHS = RHS

- (a) in given equation,
 - Interchange 8 and 6 and * and ÷

We know that,

- \Rightarrow 48 ÷ 8 + 32 12 × 6
- \Rightarrow 6 + 32 72
 - = -34
- LHS = RHS
- (d) Interchange the value in given options.
 - Option (a) By interchange (4 and 6) and (5 and 9)

 - (b) By interchange (4 & 6), (5 & 9)
 - 6999
 - (c) By interchange (4 & 6), (5 & 9)
 - 5383
 - (d) By interchange (4 & 6), (5 & 9)
 - 7<u>6</u>98

Hence, option 'd' is correct.

- (a) In given equation,
 - $24 \div 6 2 + 4 \times 2$

We can interchange the sign

- \Rightarrow 24 + 6 × 2 ÷ 4 2
- \Rightarrow 24 + 3 2
- \Rightarrow 27 2 = 25
- 7. (d) In given equation

 $18 \times 7 \div 36 + 78 - 14 = 86$

We can interchange 4 and 3, ÷ and - sign

- $18 \times 7 46 + 78 \div 13$
- ⇒ 126 40
- ⇒ 86
- ⇒ LHS = RHS
- (d) in given equation,

78*26*4*13*28 = 58

Put the mathematical sign $(+, \times, \div, -)$

- \Rightarrow 78 + 26 × 4 ÷ 13 28
- \Rightarrow 70 + 8 28
- = 58
- LHS = RHS
- (a) In given equation,

$$18 \div 6 \times 3 - 4 + 5$$

We can Change the sign

- \Rightarrow 18 6 ÷ 3 + 4 × 5
- \Rightarrow 18 2 + 20
- ⇒ = 36
- (d) In given equation,

$$52 \div 4 - 7 \times 5 + 3$$

We can interchange the digit and sign

- \Rightarrow 57 ÷ 3 2 x 5 + 4
- \Rightarrow 19 10 + 4
- ⇒ 23 10 = 13
- (a) In given equation,

We can put the sign $(\div, +, \times, -)$

- \Rightarrow 72 ÷ 4 + 15 × 3 12
- \Rightarrow 18 + 45 12
- \Rightarrow 63 12 = 51
 - LHS = RHS
- 12. (d) in given equation,

$$36 - 6 \div 6 \times 6 + 30 = 0$$

We can change the sign - and ÷

$$\Rightarrow$$
 36 ÷ 6 - 6 × 6 + 30

- ⇒ 6 36+ 30
- \Rightarrow 36 36 = 0
 - LHS = RHS
- 13. (c) in given equation,

(38 A 17) B 9 C 117 D 13 E94 = 104

Put the sign $(-, \times, +, \div, -)$

$$\Rightarrow$$
 (38 - 17) \times 9 + 117 \div 13 - 94

- \Rightarrow 21 × 9 + 9 94
- \Rightarrow 189 + 9 94 = 104
- (b) In given equation,

$$186 \div 17 + 104 - 12 \times 3 = 16$$

We can interchange the digit 8 and 3

- \Rightarrow 136 ÷ 17 + 104 12 × 8
- \Rightarrow 8 + 104 96
- \Rightarrow 112 96 = 16
 - LHS = RHS
- (c) in given equation,

$$3 \div 6 - 2 + 8 \times 4 = 18$$

We can interchange sign ÷ and ×

- \Rightarrow 3 × 6 2 + 8 ÷ 4
- \Rightarrow 18 2 + 2 = 18
 - LHS = RHS
- (c) in given equation,

7*2*5*4*2*15

Put the sign $(+, \times, -, \div, =)$

$$7 + 2 \times 5 - 4 \div 2 = 15$$

$$17 - 2 = 15$$

(a) in given equation,

$$8 \times 4 - 7 + 8 \div 2 = 35$$

We can interchange the sign + and -

- \Rightarrow 8 × 4 + 7 8 ÷ 2
- \Rightarrow 32 + 7 4
- \Rightarrow 39 4 = 35
 - LHS = RHS
- (a) in given equation,

17*3*6*2*7*55

Put the sign $(x, -, \div, +, =)$

$$\Rightarrow$$
 17 × 3 - 6 ÷ 2 + 7 = 55

- \Rightarrow 51 3 + 7
- \Rightarrow 58 3 = 55
 - LHS = RHS
- (c) in giver equation,

18A 6B 2C 16B 4D 21 = ?

Put the sign

- \Rightarrow 18 + 6 × 2 ÷ 16 × 4 21
- \Rightarrow 18 + 3 21
- \Rightarrow 21 21 = 0
- 20. (c) in the given equation,

$$64 \times 2 + 24 \div 3 - 8 = 96$$

We can interchange sign × and ÷

- \Rightarrow 64 ÷ 2 + 24 × 3 8
- \Rightarrow 32 + 72 8
- \Rightarrow 104 8 = 96
 - LHS = RHS
- (b) in given equation,

$$15 - 5 + 75 \div 30 \times 2 = 35$$

We can interchange 15 and 30

$$\Rightarrow$$
 30 - 5 + 75 \div 15 \times 2

- \Rightarrow 25 + 10 = 35 LHS = RHS
- 22. (a) in given equation,

 $16 \times 1792 \div 7 + 9 - 15 = 778$

We can interchange the number 16 and 7

- \Rightarrow 7 × 1792 ÷ 16 + 9 15
- \Rightarrow 7 × 112 + 9 15
- ⇒ 793 15 = 778
- 23. (b) in given equation,

$$27 - 3 \times 2 \div 13 + 9 = 14$$

We can interchange the sign - and ÷

- \Rightarrow 27 ÷ 3 × 2 13 + 9
- \Rightarrow 18 13 + 9
- ⇒ 27 13 = 14
 - LHS = RHS
- 24. (b) in given equation,

$$144 + 108 \div 12 - 16 \times 6 = 24$$

We can interchange the number 108 and 144

- \Rightarrow 108 + 144 ÷ 12 16 × 6
- ⇒ 108 + 12 96
- ⇒ 120 96 = 24
 - LHS = RHS
- 25 (a) in given equation,

$$60 - 4 \times 12 \div 3 + 8 = 88$$

We can interchange the sign + and ×

- \Rightarrow 60 4 + 12 \div 3 × 8
- \Rightarrow 60 4 + 4 × 8
- \Rightarrow 92 4 = 88
 - LHS = RHS
- 26. (d) in given equation,

$$96 - 16 \div 4 \times 2 + 8 = 6$$

We can interchange the sign - and ÷

- \Rightarrow 96 ÷ 16 4 × 2 + 8
- \Rightarrow 6 8 + 8 = 6
 - LHS = RHS
- 27. (d) in given equation,

$$7 - 2 \times 14 \div 96 + 12$$

We can interchange the sign

- \Rightarrow 7 × 2 + 14 96 ÷ 12
- \Rightarrow 14 + 14 8
- ⇒ 28 − 8 = 20
- 28. (a) in given equation,

40T 8F 16P 4R 13 = ?

- Put the sign
- \Rightarrow 40 ÷ 8 + 16 × 4 13
- \Rightarrow 5 + 64 13 = 56

29. (c) in the given equation,

$$75 \div 5 \times 15 - 3 + 10 = 60$$

We can interchange the sign - and ÷

- \Rightarrow 75 5 × 15 ÷ 3 + 10
- \Rightarrow 75 25 + 10 = 60
 - LHS = RHS
- 30. (a) in given equation,

$$3 \times 6 + 72 \div 8 - 24 = 12$$

We can interchange the number 6 and 8

- \Rightarrow 3 × 8 + 72 ÷ 6 24
- \Rightarrow 24 + 12 24 = 12
 - LHS = RHS
- (a) in given equation,

$$104 \div 8 + 6 - 9 \times 3 = 34$$

We can interchange the sign + and -

- \Rightarrow 104 ÷ 8 6 + 9 × 3
- \Rightarrow 13 6 + 27
- \Rightarrow 40 6 = 34
 - LHS = RHS

32. (a) in given equation,

 $96 \times 6 - 8 \div 2 + 3 = 768$

We can interchange the number 6 and 8

- \Rightarrow 96 × 8 6 ÷ 2 + 3
- \Rightarrow 768 3 + 3 = 768

33. (d) in given equation,

- 8*5*9*31
- Put the sign (x, -, =)
- \Rightarrow 8 × 5 9 = 31
- \Rightarrow 40 9 = 31
 - LHS = RHS

34. (c) in given equation,

$$119 - 21 \div 7 + 117 \times 3 = 11$$

We can interchange the sign ÷ and ×

- \Rightarrow 119 21 × 7 + 117 ÷ 3
- ⇒ 119 147 + 39
- ⇒ 158 147 = 11
 - LHS = RHS

35. (c) in given equation,

- 100S 12P 72R 6Q 5 = ?
- Put the sign
- \Rightarrow 100 12 ÷ 72 × 6 + 5
- \Rightarrow 100 1 + 5 = 104
- 36. (a) in given equation,

200 & 5 @ 3 \$ 20 # 5 = ?

Put the mathematical sign

 $(18 \mid 9) \mid 12 \mid 22 \mid K \mid 41 \mid (36 \mid 2) \mid K \mid 2 \mid 8 = ?$

- \Rightarrow 200 ÷ 5 × 3 20 + 5
- \Rightarrow 120 20 + 5 = 105

EXERCISE 11B

For SSC CHSL Exam

- 25*5*10*2*4*21
- SSC CHSL 10/06/2022 (Shift-3)
- (a) -, +, \div , ×, =
- (b) \div , ×, +, -, =
- (c) \times , \div , -, +, = $(d) \div, +, \times, -, =$
- Which two numbers, from amongst the given options, should be interchanged to make the given equation SSC CHSL 10/06/2022 (Shift-3) correct?
 - $(17 \times 4) (7)^2 + (63 \div 9) \times 6 + 83 41 = 83$
 - (a) 7 and 9
- (b)7 and 6
- (c) 4 and 6
- (d)4 and 7

(a) \div , =, -, ×, -, + $(c) = \times + + \div -$

46*16*4*21*72*4*57

(a) 80

(c) 60

SSC CHSL 10/06/2022 (Shift-2)

SSC CHSL 10/06/2022 (Shift-3)

(b) -, +, \times , =, -, +

(b)61

(d)71

If I denotes '÷', J denotes 'x', K denotes '-' and L denotes '+', then what will come in place of '?' in the following

- $(d) + = -, \times, -, +$

	Matnematical Operations ■						
5.	3*4*2*10*17*2	SSC CHSL 10/06/2022 (Shift-2)		(a)90	(b) 82	(c) 76	(d) 84
	(a) +, +, +, =, -	$(b) \times_{i} \times_{i} +_{i} =_{i} \times$	18.		signs need to be		
		(d)+,+,=,×,-		_	quation correct?	SSC CHSL 21/10)/2020 (Shift-1)
6.		-', O denotes 'x' and P denotes		$5 \times 4 + 12 - 3$		<i>(,</i>)	
		place of '?' in the following		(a) + and -		(b) ÷ and -	
	equation? (72 N 9) O 4 M 26 P 97 M (SSC CHSL 10/06/2022 (Shift-2)	19.	(c) ÷ and ×		()	on' '∸' moans
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		If '+' means 'multiplication', '*' means 'division', '+' means 'subtraction', and '-' means 'addition', find the value of			
7.	40*2*15*30*5	*15*30*5 SSC CHSL 10/06/2022 (Shift-1)			ng expression.		
		(b) ×, =, -, -		48 ÷ 12 × 3 –			
	$(c) \div, =, +, -$	$(d) \div, +, =, +$		(a) 150	(b) 30		(d)62
8.	42*19*4*69*81*9*58	(b)÷, -, ×, =, ×, +	20.		correct equation		
				and the numbers '4' and '8' are interchanged. ssc CHSL 20/10/2020 (shift-1)			
	(c) -, -, =, ×, ÷, -			() 0 1 0			
9.		', K denotes '-' and L denotes		(a) $2 \times 4 + 8$		(b) $4 + 8 \times 2 =$	
	'+', then what will come in place of '?' in the following equation? SSC CHSL 09/06/2022 (Shift-3) 19 L (22 J 4) K (66 I 11) L (16 J 2) = ?		21.	` '		(d) $12 \times 4 + 8 = 10$	
			21.	Which two numbers should be interchanged in the following equation to make it correct?			
	(a) 141 (b) 130			Tollovvillig o		SSC CHSL 19/10	/2020 (Shift-3)
	(c) 133	(d)138		$12 \times 2 + 8 - 4$			
10.		SSC CHSL 09/06/2022 (Shift-3)		(a) 12 and 4		(b)2 and 6	
	(a) -, +, ×, -, ×	(b)÷, +, ×, -, +, =		(c) 8 and 1:		(d)6 and 8	
	(c) +, =, -, +, ×, ÷	(d)=, -, +, ×, -, +	22.		signs should be		
11.	79*2*58*2*14*143	SSC CHSL 09/06/2022 (Shift-2)			ition correct? $6 \times 70 \div 35 = 42$	SSC CHSL 11/08	/2021 (Shift-2)
	(a) -, +, ÷, ×, =	(b)÷, ×, -, +, =		$(a) \div and \times$		(b)× and -	
10	(c) x, -, ÷, +, =	(d)÷, ×, +, -, =		(c) + and >		(b) × and – (d) + and –	
12.	26*56*4*17*49*7*30	SSC CHSL 09/06/2022 (Shift-1)	23.	` '	digits and signs	` '	nterchanged
		(b) -, +, ×, +, =, - (d) -, ÷, +, -, ×, =			lance the given		
13.	(c) +, -, =, \times , \div , - (d) -, \div , +, -, \times , = Which two numbers need to be interchanged to make					SSC CHSL 11/08	3/2021 (Shift-1)
10.	the following equation correct?			26 ÷ 6 – 54 -	$+24 \times 8 = 174$		
	O I	SSC CHSL 26/10/2020 (Shift-3)			3; × and ÷		
	0 3 . 5 0 10				1; - and ×		
	$8 \times \frac{3}{4} + 5 - 9 = 10$		24.	Which two digits and two signs need to be interchanged			
	(a) 4 and 8	(b)3 and 9		so asto bal	lance the given		(a.a., (a. 16. a)
	(c) 5 and 9 If '+' means 'divided by',	(d)3 and 4 '-' means 'add', '×' means		98 ÷ 4 – 126	$+96 \times 5 = 266$	SSC CHSL 10/08	/2021 (Shift-3)
14.				(a) 8 and 2) and +	(b)5 and 8;	v and ÷
	'minus' and '÷' means 'multiplied by', what will be the			(a) 5 and 2		(d) 6 and 4;	
	approximate value of the	= :	0.5				
	SSC CHSL 26/10/2020 (Shift-2)		25.	Which two numbers need to be interchanged to make the following equation correct?			
	$\left[\left\{\left(11\times2\right)-\left(2\div3\right)\right\}+\left(3-2\right)\right]\div2$			SSC CHSL 19/10/2020 (Shift-3)			
	(a) 4 (b) 5			(1)		33C CH3L 19/10/	2020 (311111-3)
	(c) 6	(d)3		$8 \times \left(\frac{4}{3}\right) + 9 -$	-5 = 10		
15.		be interchanged to balance		\ /		()	(,) = -
	the given equation? SSC CHSL 26/10/2020 (Shift-1) $4 \times 3 + 10 - 2 \div 7 = 10$		26.	(a) 9, 3	(b) 8, 4	(c) 4, 3	(d) 5, 3
			20.	Which two numbers should be interchanged in the following equation to make it correct?			
	(a) × and +	(b)÷ and ×		SSC CHSL 19/10/2020 (Shift-2)			
	(c) ÷ and -	(d)+ and -		$36 \div 6 - 15 \times$	2 + 48 = 14		
16.	Which of the following	options of changing the		(a) 6 and 1	4	(b) 48 and 15	;
		will make the given equation		(c) 2 and 6	3	(d)36 and 48	8
	correct?	SSC CHSL 21/10/2020 (Shift-3)	27.	If '-' means	multiplication, '×	' means additi	ion, '÷' means
	$2 \div 3 - 5 \times 3 + 3 = 16$				n, and '+' means		which of the
	(a) $\div \rightarrow \times, - \rightarrow \div, \times \rightarrow +, + \rightarrow +$	$- (b) \div \rightarrow \times, - \rightarrow +, \times \rightarrow \div, + \rightarrow -$		following ed	quations is corre	ect?	

(c) $\div \rightarrow -, - \rightarrow +, \times \rightarrow +, + \rightarrow \div$ (d) $\div \rightarrow +, - \rightarrow \times, \times \rightarrow -, + \rightarrow \div$ 17. If '+' means 'x', '-' means '+', 'x' means '\ddot' and '\ddot' means

 $24 \times 4 + 12 - 14 \div 10$

SSC CHSL 19/10/2020 (Shift-1) (a) $8 + 3 \div 16 \times 36 - 6 = 14$ (b) $8 - 3 \div 16 \times 36 + 6 = 14$

'-', then what is the value of the following equation? SSC CHSL 21/10/2020 (Shift-3)

(c) $8 \div 3 - 16 + 36 \times 6 = 14$

(d) $8 \times 3 \div 16 + 36 - 6 = 14$

28. Which two numbers should be interchanged in the following equation to make it correct?

SSC CHSL 16/10/2020 (Shift-3)

 $6 + 28 \div 4 - 2 \times 17 = 12$

- (a) 28 and 2 (b)6 and 4(c) 17 and 6 (d) 17 and 4
- 29. Which two signs or numbers should be interchanged to make the given equation correct?

SSC CHSL 16/10/2020 (Shift-2)

 $(56 \div 7) + 5 \times 8 - 12 = 60$

- (a) 7 and 5 $(b) \times and +$ (c) + and \div (d) 8 and 12
- Which two signs should be interchanged to make the SSC CHSL 16/10/2020 (Shift-1) given equation correct?

 $(560 \div 80) + 90 \times 8 - 38 = 600$

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

SOLUTIONS

(d) In given equation,

25*5*10*2*4*21

Put the Mathematical sign $(\div, +, \times, -, =)$

- \Rightarrow 25 ÷ 5 + 10 × 2 4
- \Rightarrow 5 + 20 4 = 21
- ⇒ LHS = RHS

Option (d) is right

(a) In given equation,

 $(17 \times 4) - (7)^2 + (63 \div 9) \times 6 + 83 - 41 = 83$

Interchange the number 7 and 9

- \Rightarrow 17 × 4 (9)² + (63 ÷ 7) × 6 + 83 41
- \Rightarrow 68 81 + 54 + 83 41
- \Rightarrow 122 122 + 83 = 83

Option (a) is correct

3. (b) In given equation,

(18 | 9) J 12L 22K 41L (36J2) K2J8=?

Put the Mathematical sign

- \Rightarrow (18 ÷ 9) × 12 + 22 41 + (36 × 2) 2 × 8
- \Rightarrow 24 + 22 41 + 72 16
- ⇒ 118 57 = 61
- (c) In given equation,

46*16*4*21*72*4*57

Put the Mathematical sign $(=, \times, +, +, \div, -)$

- \Rightarrow 46 = 16 × 4 + 21 + 72 ÷ 4 57
- \Rightarrow 46 = 64 + 21 + 18 57
- ⇒ 46 = 103 57
- ⇒ 46 = 46

Option (c) is right

(b) In given equation,

3*4*2*10*17*2

Put the Mathematical sign (x, x, +, =, x)

- \Rightarrow 3 × 4 × 2 + 10 = 17 × 2
- \Rightarrow $24 \times 10 = 34$
- 34 = 34

Option (b) is right

6. (b) In the given equation,

(72 N 9) O4 m 26 P 97 m (36 N 2) = ?

Put the mathematical sign

- $(72 \div 9) \times 4 26 + 97 (36 \div 2)$
- \Rightarrow 8 × 4 26 + 97 18
- \Rightarrow 32 26 + 97 18 = 85
- (d) In given equation,

40*2*15*30*5

- Put the mathematical sign in option (d)
- \Rightarrow 40 ÷ 2 + 15 = 30 + 5

- 20 + 15 = 35
- 35 = 35

Option (d) is right.

(a) In the given equation,

42*19*4*69*81*9*58

Put the mathematical sign $(+, \times, -, +, \div, =)$

$$42 + 19 \times 4 - 69 + 81 \div 9 = 58$$

- 42 + 76 69 + 9
- 58 = 58

LHS = RHS

(c) ATQ,

19 L (22J4) K (66III) L (16J2)

Put the mathematical sign in place of alphabets

- \Rightarrow 19 + (22 × 4) (66 ÷ 11) + (16 × 2)
- \Rightarrow 19 + 88 6 + 32
- \Rightarrow 139 6 = 133
- (b) In given equation, 10.

78*3*12*5*59*17*44

Put the mathematical sign in given option (b)

- $78 \div 3 + 12 \times 5 59 + 17 = 44$
- 26 + 60 59 + 17 = 44
 - 103 59 = 44 \Rightarrow
 - \Rightarrow 44 = 44

- Hence, option 'b' is correct 11.
- (c) In given equation,

79*2*58*2*14*143

Put the mathematical signs given in option (c)

- \Rightarrow 79 × 2 58 ÷ 2 + 14 = 143
- 158 29 + 14 = 143 \Rightarrow
- 172 29 = 143 \Rightarrow
- 143 = 143

Hence, option 'c' is correct (a) In given equation,

12.

26*56*4*17*49*7*30

Put the mathematical sign given in option (a)

- \Rightarrow 26 + 56 ÷ 4 17 + 49 ÷ 7 = 30
- 26 + 14 7 + 7 = 30
- 47 17 = 30 \Rightarrow
 - 30 = 30

Option (a) is correct.

(c) In the given equation,

$$8 \times \frac{3}{4} + 5 - 9 = 10$$

Interchange the number 5 and 9

- $8 \times \frac{3}{4} + 9 5$
- 6 + 9 5

 \Rightarrow 15 - 5 = 10 LHS = RHS

Hence, 'c' is correct option,

14. (c) In given equation,

$$[\{(11 \times 2) - (2 \div 3)\} + (3 - 2)] \div 2$$

Interchange the sign

$$\Rightarrow$$
 [{(11 - 2) + (2 × 3)} ÷ (3 + 2)] × 2

$$\Rightarrow$$
 [(9 + 6) \div 5] \times 2

 \Rightarrow 3 × 2 = 6

Hence, option 'c' is correct

15. (c) In given equation,

$$4 \times 3 + 10 - 2 \div 7 = 10$$

Interchange the sign $(\div, -)$

$$\Rightarrow$$
 4 × 3 + 10 ÷ 2 - 7

$$\Rightarrow$$
 12 + 5 - 7

$$\Rightarrow$$
 17 - 7 = 10

Hence, option (c) is correct.

16. (d) In given equation,

$$2 \div 3 - 5 \times 3 + 3 = 16$$

Change the sign given in option (d)

$$\Rightarrow$$
 2 + 3 × 5 - 3 ÷ 3

$$\Rightarrow$$
 2 + 15 - 1

Hence, option (d) is correct

17. (c) In the given equation,

Change the sign

$$\Rightarrow$$
 24 ÷ 4 × 12 + 14 - 10

$$\Rightarrow$$
 6 × 12 + 14 - 10

$$\Rightarrow$$
 72 + 14 - 10 = 76

Hence, option 'c' is correct

18. (b) In given equation,

$$5 \times 4 + 12 - 3 \div 6 = 18$$

interchange the sign ÷ and -

$$\Rightarrow$$
 5 × 4 + 12 ÷ 3 - 6

$$\Rightarrow$$
 20 + 4 - 6

$$\Rightarrow$$
 24 - 6 = 18

Hence, option (b) is correct

19. (d) In given equation,

$$48 \div 12 \times 3 - 6 + 3$$

 $\Rightarrow 48 - 12 \div 3 + 6 \times 3$

$$\Rightarrow$$
 66 - 4 = 62

Option 'd' is correct

20. (a) In given sign and numbers.

Put the sign and number in option (a)

$$\Rightarrow$$
 2 + 4 × 8 = 34

$$\Rightarrow$$
 2 + 32 = 34

Option 'a' is correct

21. (c) In given equation

$$12 \times 2 + 8 - 48 \div 6$$

Interchange the number 8 and 12

$$\Rightarrow$$
 8 × 2 + 12 - 48 ÷ 6

$$\Rightarrow$$
 16 + 2 - 8

$$\Rightarrow$$
 28 - 8 = 20

Option 'c' is correct

22. (d) In given equation,

$$45 - 49 + 26 \times 70 \div 35 = 42$$

Interchange the sign + and -

$$\Rightarrow$$
 45 + 49 - 26 × 70 ÷ 35

Option 'd' is correct

23. (a) In the given equation,

$$26 \div 6 - 54 + 24 \times 8 = 174$$

Interchange number (6 and 8) and sign (x, \div)

$$\Rightarrow$$
 28 × 8 - 54 + 24 ÷ 6

Hence, option 'a' is correct

24. (b) in given equation,

$$98 \div 4 - 126 + 96 \times 5 = 266$$

Interchange sign (\times and \div) and number (5 and 8)

$$\Rightarrow$$
 95 × 4 - 126 + 96 ÷ 8

Option 'b' is correct

25. (c) In given equation.

$$8 \times \left(\frac{4}{3}\right) + 9 - 5 = 10$$

Interchange the number 4 and 3

$$\Rightarrow 8 \times \frac{4}{3} + 9 - 5$$

$$\Rightarrow$$
 6+9-5

$$\Rightarrow$$
 15 - 5 = 10

Option 'c' is correct

26. (d) In given equation,

$$36 \div 6 - 15 \times 2 + 48 = 14$$

Interchange the number 36 and 48

$$\Rightarrow$$
 48 ÷ 6 - 15 × 2 + 36

$$\Rightarrow$$
 8 - 30 + 36

$$\Rightarrow$$
 44 - 30 = 14

Option 'd' is correct

27. (b) Interchange the sign in option 'b'

$$8 \times 3 - 16 + 36 \div 6$$

$$24 - 16 + 6$$

Hence often 'b' is correct

28. (c) In given equation

$$6 + 28 \div 4 - 2 \times 17 = 12$$

interchange the sign 17 and 16

$$17 + 28 \div 4 - 2 \times 6$$

$$17 + 7 - 12$$

$$24 - 12 = 12$$

Option 'c' is correct

29. (d) in given equation,

$$(56 \div 7) + 5 \times 8 - 12 = 60$$

$$\Rightarrow$$
 (56 ÷ 7) + 5 × 12 - 8

$$\Rightarrow$$
 8 + 60 - 8

Option 'd' is correct

30. (b) In given equation,

$$(560 \div 80) + 90 \times 8 - 30 = 600$$

Interchange the sign × and + $(560 \div 80) \times 90 + 8 - 38$

 $7 \times 90 + 8 - 38$

630 + 8 - 38

638 - 38 = 600LHS = RHS Hence, option b' is correct

EXERCISE 11C

For SSC CGL CPO Exams

If '@' means 'addition', '%' means 'multiplication', '\$' means 'division' and '#' means 'subtraction', then find the value of the following expression.

SSC CGL 19/04/2022 (Shift-2)

126 \$ 7% 3 @ 19 # 21

(a) 52(b)18 (c) 23 (d)4

Which two numbers need to be interchanged to make the following equation correct?

SSC CGL 19/04/2022 (Shift-1)

 $119 + 11 \times 5 - 153 \div 17 = 201$

(a) 119 and 153 (b)17 and 5 (d)119 and 17 (c) 11 and 17

Which two digits should be interchanged to make the given equation correct? SSC CGL 19/04/2022 (Shift-1) $37 + 1152 \times 8 \div 768 - 47 = 22$

(a) 3 and 4 (b)2 and 3(c) 4 and 5 (d)5 and 6

If 'A' denotes 'addition', 'B' denotes 'multiplication', 'C' denotes 'subtraction', and 'D' denotes 'division', then what will be the value of the following expression.

SSC CGL 18/04/2022 (Shift-3)

441 D 7 A 21 B 6 C (189 D 7) A (46 C 12)

(a) 158

(b)169

(c) 196

(d)185

63*90*42*230*46*3

SSC CGL 18/04/2022 (Shift-3)

(a) =,×,+,÷,-

(b) +, \div , -, =, \times

(c) =, -, +, \div , ×

(d) \times , \div , =, -, +

Which two numbers (Not Digits) need to be interchanged to make the following equation correct?

SSC CGL 18/04/2022 (Shift-2)

 $15 + 90 \div 9 \times 5 - 11 = 28$

(a) 11 and 9

(b) 15 and 9

(c) 15 and 5

(d)9 and 5

15*1411*83*137*218*100

SSC CGL 18/04/2022 (Shift-2)

(a) $\times, \div, =, +, -$

(b) $\times, =, -, \div, +$

(c) +,-,×,=,÷

(d) $\times, +, \div, -, =$

If '@' means 'addition', '%' means 'multiplication', '\$' means 'division', and '#' means 'subtraction', then find the value of the following expression.

SSC CGL 18/04/2022 (Shift-1)

23 @ 105 \$ 15 % 6 # 29

(a) 23 (b) 28 (c)36(d)40

If A denotes 'addition', B denotes 'multiplication', C denotes 'subtraction', and D denotes 'division', then what will be the value of the following expression?

SSC CGL 18/04/2022 (Shift-1)

66 A (132 D 12) C (4 A 3) B (15 D 5) A 16 B (-3)

(a) 8

(b)10

(c) 6

(d)56

34*17*54*18*6*56

(a) $+, \div, \times, -, =$

(b) ÷,-,+,×,=

(c) \times , +, \div , -, =

(d) $\div, -, \times, +, =$

135*15*3*2*13*16

SSC CGL 24/08/2021 (Shift-2) (b) =,×,+,÷,-

SSC CGL 13/04/2022 (Shift-3)

(a) $+, \div, -, =, \times$

(c) ÷,×,+,-,=

(d) $\times, +, =, \div, -$

Which two signs should be interchanged to make the SSC CGL 24/08/2021 (Shift-1) given equation correct? $156 - 13 + 9 \times 18 \div 5 = 169$

(a) \times and \div

 $(b) \times and -$

 $(c) \div and +$

 $(d) \div and -$ SSC CGL 23/08/2021 (Shift-3)

14*7*39*133*19*130 (a) $\div, -, +, \times, =$

(b) $\times, -, +, \div, =$

(c) \div ,+,-,×,=

(d) \times , +, -, \div , =

252*14*8*100*16*60

(a) $\div, -, \times, +, =$

(b) $\div, \times, -, +, =$

(c) ÷,×,+,=,-

(d) $\div, \times, +, -, =$

25*7*40*20*4*210

(b) $\times, -, +, \div, =$

(a) $\times, +, -, \div, =$ (c) -,+,=,÷,×

(d) +,-,=,÷,×

5*468*18*70*180*4*5

(a) $\times, \div, -, +, =, \times$

(b) $\times, \div, +, -, =, \times$

(c) $\times, \div, +, =, -, \times$

(d) ÷,×,+,-,=,× SSC CGL 20/08/2021 (Shift-2)

SSC CGL 23/08/2021 (Shift-2)

SSC CGL 23/08/2021 (Shift-1)

SSC CGL 20/08/2021 (Shift-3)

17. 221*17*12*130*24*50 (a) $\div, -, \times, =, +$

(b) \times , \div , -, +, =

(c) ÷,×,-,+,=

(d) $\div, \times, -, =, +$

45*24*72*20*12*7 (a) =,×,+,÷,-

SSC CGL 20/08/2021 (Shift-1) (b) $\div, \times, +, -, =$

(c) $+, \div, -, =, \times$

(d) $\times, \div, =, -, +$

483*23*93*16*4*50

SSC CGL 18/08/2021 (Shift-3)

(a) $\div, -, +, \times, =$ (b) +, \div , -, \times , =

(c) ÷,+,-,=,×

(d) \div , +, -, ×, =

Which two numbers should be interchanged to make the given equation correct?

SSC CGL 18/08/2021 (Shift-2)

 $78 \div 48 \times 8 + (26 \times 7) - 39 + (45 + 15) = 210$

(a) 26 and 15

(b) 78 and 45

(c) 48 and 39

(d)45 and 48

If 'A' stands for 'subtraction', 'B' stands for 'multiplication', 'C' stands for 'addition', and 'D' stands for 'Division', then what is the value of the following expression?

SSC CGL 09/03/2020 (Shift-3)

43 C 29 B 3 A 14 B (5 C 4) C 11 C (14 A 3) A 64 D 8 B 2

(a) 83

(b) 27

(c) 110

(d)10

Which two signs should be interchanged to make the SSC CGL 09/03/2020 (Shift-2) given equation correct? $14 \times 3 \div 27 + 54 - 9 = 21$

 $(a) \times and -$

(b) + and -

(c) ÷ and -

 $(d) \times and \div$

23. If 'A' stands for 'Subtraction', 'B' stands for 'multiplication', 'C' stands for 'addition', and 'D' stands for 'Division', then what is the value of the following expression?

SSC CGL 09/03/2020 (Shift-1)

32 B4 A 12 B (35 A 24) C 52 D 4

(a) 19

(b)9

(c) 47

- (d)39
- 24. Which two signs should be interchanged to make the given equation correct? SC CGL 07/03/2020 (Shift-3) $121 \div 11 + 54 - 9 \times 3 = 128$
 - (a) \div and –
- (b) + and -
- (c) × and ÷
- $(d) + and \times$
- 25. If 'A' stands for 'Subtraction', 'B' stands for 'multiplication', 'C' stands for 'addition', and 'D' stands for 'Division', then what is the value of the following expression?

SSC CGL 07/03/2020 (Shift-2)

27 A 8 B 5 C (11 C 3) B 5 C 36 D 6

(a) 24

(b)20

- (c) 63
- (b)20 (d)60
- 26. Which two numbers should be interchanged to make the given equation correct?

SSC CGL 06/03/2020 (Shift-3)

 $28 + 49 - 35 \div 7 \times 4 = 68$

- (a) 28 and 35
- (b) 49 and 35
- (c) 28 and 49
- (d) 4 and 28
- 27. The two given expression on both sides of the '=' sign will have the same value if two numbers from either side of both sides are interchanged. Select the correct numbers to be interchanged from the given options.

SSC CGL 06/03/2020 (Shift-2)

 $4 + 6 \times 7 - 27 \div 3 = 7 \times 8 - 4 + 39 \div 3$

(a) 6, 4

(b)6.8

(c) 8, 7

- (d) 3, 4
- 28. Which two signs should be interchanged to make the given equation correct? SC = 06/03/2020 (shift-1) $12 + 81 27 \times 9 \div 3 = 36$
 - $(a) + and \times$
- $(b) \times and -$
- (c) \div and \times
- (d) and \div
- 29. Select the correct equation after interchanging operations '+' and '-' and numbers '4' and '8'

SSC CPO 13/12/2019 (Shift-3)

- (a) 2 + 8 4 = 9
- (b)4 8 + 11 = 1
- (c) 8 + 4 2 = 10
- (d)4 8 + 11 = 8
- 30. 86*(5*8*4)*9*85
- SSC CPO 13/12/2019 (Shift-3)
- (a) +,×,÷,-,=
- (b) $\div, -, \times, +, =$
- (c) $-, \times, \div, +, =$
- (d) +, -, \times , \div , +, =

- Which two signs need to be changed to make the following equation correct. **ssc cpo 13/12/2019 (shift-3)** $64-8\div3+7\times5=40$
 - $(a) \div and -$
- $(b) \times and +$
- $(c) \div and +$
- $(d) \times and \div$
- 32. (157_13)_36_1_5
- SSC CPO 13/12/2019 (Shift-1)
- $(a) +, \div, -, =$
- (b)-, ÷, +, =
- (c) +, -, ÷, =
- $(d) \div, -, +, =$
- 33. If '+' means '-', '-' means 'x', 'x' means '÷' and '÷' means '+', then what will be the value of the following expression?

 SC CPO 13/12/2019 (shift-1)
 - $25 2 + 32 \times 8 \div 4$
 - (a) 51

(b)45

(c) 55

- (d)50
- 34. Which two signs need to be interchanged to make the following equation correct?

SSC CPO 13/12/2019 (Shift-1)

 $48 - 8 \div 4 + 5 \times 6 = 32$

- $(a) \times and +$
- (b)÷ and -
- (c) × and ÷
- (d)÷ and +
- 35. 1/6*1/24*2*8*35*23
- SSC CPO 12/12/2019 (Shift-3)
- (a) \times , -, \div , +, =
- (b) x,+,÷,-,=
- (c) +,-,÷,×,=
- (d) $\div, -, \times, +, =$
- 36. Select the correct equation after interchanging operators '+' and '÷', and numbers '2' and '8'.

SSC CPO 12/12/2019 (Shift-3)

- (a) $2 + 8 \div 4 = 2$
- (b) $8 + 4 \div 2 = 8$
- (c) $8 + 2 \div 4 = 6$
- $(d)4 + 8 \div 2 = 4$
- 37. If + means -, means x, x means ÷, and ÷ means +, then what will be the value of following expression?

SSC CPO 12/12/2019 (Shift-3)

- $50 + 10 \div 25 \times 5 3 = ?$
- (a) 51 (b) 50
- (c) 45 (d) 55
- 3. (18*9*14)*37*4 SSC CPO 12/12/2019 (Shift-1)
 - (a) \div , -, ×, =
- (b) \times , -, \div , =
- (c) -, \div , ×, =
- (d) \times , \div , -, =
- 39. If + means -, means ×, × means ÷, and ÷ means +, then what will be the value of following expression?

- $27 2 + 24 \times 8 \div 4$
- (a)45
- (b) 55
-) 55
- (c) 50
- 40. Which two signs need to be interchanged to make the following equation correct?

SSC CPO 12/12/2019 (Shift-1)

$$45 - 9 \div 3 + 5 \times 6 = 32$$

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

SOLUTIONS

- 1. (a) 126 \$ 7 % 3 @ 19 # 21
 - Put the mathematical sign to replace of alphabets
 - \Rightarrow 126 ÷ 7 × 3 + 19 21 = 18 × 3 + 19 21
 - \Rightarrow 54 + 19 21 = 52
- 2. (a) $119 + 11 \times 5 153 \div 17 = 201$
 - Interchange the no. 119 and 153
 - \Rightarrow 153 + 11 × 5 119 ÷ 17 = 153 + 55 7 = 201 (a) 37 + 1152 × 8 ÷ 768 - 47 = 22

- Interchange the two digit 3 and 4
- \Rightarrow 47 + 1152 × 8 ÷ 768 37 = 47 + 12 37
- \Rightarrow 22
- 4. (c) 441 D 7 A 21 B 6C (189D 7) A (46C 12)
 - Put the mathematical sign to replace alphabets
 - \Rightarrow 441 ÷ 7 + 21 × 6 (189 ÷ 7) + (46 12)
 - \Rightarrow 441 ÷ 7 + 21 × 6 27 + 34 = 63 + 126 27 + 34
 - ⇒ 223 − 27 = 196

5. (c) 63*90*42*230*46*3

Put the mathematical sign in given option (c)

$$63 = 90 - 42 + 230 \div 46 \times 3$$

$$63 = 90 - 42 * 5 \times 3$$

63 = 63

Option (c) is correct

6. (b) $15 + 90 \div 9 \times 5 - 11 = 28$

Interchange the no. 15 and 9

$$\Rightarrow$$
 9 + 90 ÷ 15 × 5 - 11 = 9 + 6 × 5 - 11 = 28

option (b) is correct

7. (a) 15*1411*83*137*218*100

Put the mathematical sign in given option (a)

$$\Rightarrow$$
 15 × 1411 ÷ 83 = 137 + 218 - 100

$$\Rightarrow$$
 15 × 17 = 355 - 100

⇒ 255 = 255

So, option (a) is correct

8. (c) 23 @ 105 \$ 15 % 6 # 29

Put the mathematical sign to replace alphabets

$$23 + 105 \div 15 \times 6 \div 29 = 23 + 7 \times 6 - 29$$

9. (a) 66 A (132D 12) C (4A 3) B (15D 5) A 16B (-3)

Put the mathematical sign to replace alphabets

$$\Rightarrow$$
 66 + 11 - 7 × 3 + (-48)
 \Rightarrow 77 - 69 = 8

10. (b) 34*17*54*18*6*56

Put the mathematical sign in given option (b)

$$\Rightarrow$$
 34 ÷ 17 - 54 + 18 × 6 = 56

$$\Rightarrow \qquad 2 - 54 + 108 = 56$$

$$\Rightarrow$$
 110 - 54 = 56

Option (b) is correct

11. (c) 135*15*3*2*13*16

Put the mathematical sign in given option (c)

$$\Rightarrow$$
 135 ÷ 15 × 3 +2 - 13 = 16

$$\Rightarrow$$
 9 × 3 + 2 - 13 = 16

Option (c) is correct

12. (d) $156 - 13 + 9 \times 18 \div 5 = 169$

Interchange the two sign (÷) and (-)

$$\Rightarrow$$
 156 ÷ 13 + 9 × 18 - 5 = 169

$$\Rightarrow$$
 12 + 162 - 5 = 169

$$\Rightarrow 174 - 5 = 169$$

Option (d) is correct

13. (d) 14*7*39*133*19*130

Put the mathematical sign in given option (d).

$$\Rightarrow$$
 14 × 7 + 39 - 133 ÷ 19 = 130

$$\Rightarrow$$
 98 + 39 - 7 = 130

$$\Rightarrow$$
 137 - 7 = 130

Option (d) is correct

14. (b) 252*14*8*100*16*60

Put the mathematical sign in given option (b).

$$\Rightarrow$$
 252 ÷ 14 × 8 - 100 + 16 = 60

$$\Rightarrow$$
 18 × 8 - 100 + 16 = 60

Option (b) is correct

15. (a.) 25*7*40*20*4*210

Put the mathematical sign in given option (a).

$$\Rightarrow$$
 25 × 7 + 40 - 20 ÷ 4 = 210

$$\Rightarrow 175 + 40 - 5 = 210$$

$$\Rightarrow 215 - 5 = 210$$

Option (a) is correct

16. (b) 5* 468*18*70*180*4*5

Put the mathematical sign in given option (b).

$$\Rightarrow$$
 5 × 468 ÷ 18 + 70 - 180 = 4 × 5

$$\Rightarrow$$
 5 × 26 + 70 - 180 = 20

Option (b) is correctt

17. (c) 221*17*12*130*24*50

Put the mathematical sign in given option (c).

$$\Rightarrow$$
 221 ÷ 17 × 12 - 130 + 24 = 50

$$\Rightarrow$$
 13 × 12 - 130 + 24 = 50

$$\Rightarrow$$
 156 - 130 + 24 = 50

Option (c) is correct

18. (d) 45*24*72*20*12*7

Put the mathematical sign in given option (d)

$$\Rightarrow$$
 45 × 24 ÷ 72 = 20 - 12 + 7

$$\Rightarrow 15 = 27 - 12$$

Option (d) is correct (d) 483*23*93*16*4*50

Put the mathematical sign in given option (d)

$$\Rightarrow$$
 483 ÷ 23 + 93 - 16 × 4 = 50

$$\Rightarrow$$
 21 + 93 - 64 = 50

Option (d) is correct.

20. (c) $78 \div 46 \times 8 + (26 \times 7) - 39 + (45 + 15) = 210$

Interchange the no. 48 and 39

$$\Rightarrow$$
 78 ÷ 39 × 8 + (26 × 7) - 48 + (45 + 15) = 210

$$\Rightarrow$$
 2 × 8 + 182 - 48 + 60 = 210

$$\Rightarrow$$
 16 + 242 - 48 = 210

Option (c) is correct

21. (d) 43 C 29 B 3 A 14 B (5 C 4) C 11 C (14 A 3) A 64 D 8

Put the mathematical sign to replace B2 alphabets ⇒ 43 + 29 × 3 - 14 × (5 + 4) + 11 + (14 - 3) - 64 ÷ 8 × 2

22. (c) $14 \times 3 \div 27 + 54 - 9 = 21$

$$\Rightarrow 14 \times 3 - 27 + 54 \div 9 = 21$$

$$\Rightarrow 42 - 27 + 6 = 21$$

$$\Rightarrow 48 - 27 = 21$$

$$\Rightarrow \qquad \qquad 21 = 21$$

Option (c) is correct

23. (b) 32 B4 A 12B (35 A 24) C 5 2 D 4

Put the mathematical sign to replace alphabets

$$\Rightarrow$$
 32 × 4 - 12 × (35 - 24) + 52 ÷ 4

24. (a) $121 \div 11 + 54 - 9 \times 3 = 128$

Interchange the sign \div and - $\Rightarrow 121 - 11 + 54 \div 9 \times 3 = 128$ $\Rightarrow 121 - 11 + 18 = 128$ $\Rightarrow 139 - 11 = 128$ $\Rightarrow 128 = 128$

Option (a) is correct.

25. (c) 27 A 8 B 5 C (11 C 3) B 5 C 36 D 6

Put the mathematical sign to replace alphabets \Rightarrow 27 - 8 × 5 + (11 + 3) × 5 + 36 ÷ 6 \Rightarrow 27 - 40 + 14 × 5 + 6 = 27 - 40 + 70 + 6

26. (a) $28 + 49 - 35 \div 7 \times 4 = 68$

Interchange the no. 28 and 35 \Rightarrow 35 + 49 - 28 ÷ 7 × 4 = 68 \Rightarrow 35 + 49 - 4 × 4 = 68 \Rightarrow 84 - 16 = 68 \Rightarrow 68 = 68

Option (a) is correct

27. (b) $4 + 6 \times 7 - 27 \div 3 = 7 \times 8 - 4 + 39 \div 3$

Interchange the no. 6 and 8

$$\Rightarrow 4 + 8 \times 7 - 27 \div 3 = 7 \times 6 - 4 + 39 \div 3$$

$$\Rightarrow 4 + 56 - 9 = 42 - 4 + 13$$

$$\Rightarrow 51 = 51$$

Option (b) is correct.

28. (d) $12 + 81 - 27 \times 9 \div 3 = 36$

Interchange the sign (-) and (\div)

$$\Rightarrow 12 + 81 \div 27 \times 9 - 3 = 36$$

$$\Rightarrow 12 + 3 \times 9 - 3 = 36$$

$$\Rightarrow 12 + 27 - 3 = 36$$

$$\Rightarrow 36 = 36$$

Option (d) is correct

29. (b) A.T.Q. = Interchange the sign + and - and no. 4 and 8 in option (b)

$$4 - 8 + 11 = 1$$

 $\Rightarrow 8 + 4 - 11 = 1$
 $\Rightarrow 12 - 11 = 1$
 $\Rightarrow 1 = 1$

Option (b) is correct

30. (c) 86*(5*8*4)*9*85

Put the mathematical sign in given option (c)

$$\Rightarrow$$
 86 - (5 × 8 ÷ 4) + 9 = 85
 \Rightarrow 86 - 10 + 9 = 85
 \Rightarrow 95 - 10 = 85
 \Rightarrow 85 = 85

Option (c) is correct.

31. (a) $64 - 8 \div 3 + 7 \times 5 = 40$

Interchange the sign \div and - $\Rightarrow 64 \div 8 - 3 + 7 \times 5 = 40$ $\Rightarrow 8 - 3 + 35 = 40$ $\Rightarrow 43 - 3 = 40$ $\Rightarrow 40 = 40$

Option (a) is correct.

32. (b) (157 - 13) - 36 - 1 - 5

Put the mathematical sign in given option (b)

⇒
$$(157 - 13) \div 36 + 1 = 5$$

⇒ $144 \div 36 + 1 = 5$
⇒ $4 + 1 = 5$
⇒ $5 = 5$

Option (b) is correct.

33. (d)
$$25 - 2 + 32 \times 8 \div 4$$

Put the mathematical sign to replace given sign

$$\Rightarrow$$
 25 × 2 - 32 ÷ 8 + 4 = 50 - 4 + 4 \Rightarrow = 50

34. (b.)
$$48 - 8 \div 4 + 5 \times 6 = 32$$

Interchange the sign (÷) and (-)

$$\Rightarrow 48 \div 8 - 4 + 5 \times 6 = 32$$

$$\Rightarrow 6 - 4 + 30 = 32$$

$$\Rightarrow 32 = 32$$

Option (b) is correct

35. (d)
$$\frac{1}{6} \times \frac{1}{24} \times 2 \times 8 \times 35 \times 23$$

Put the mathematical sign in given option (d)

⇒
$$\frac{1}{6} \div \frac{1}{24} - 2 \times 8 + 35 = 23$$

⇒ $4 - 16 + 35 = 23$
⇒ $39 - 16 = 23$
⇒ $23 = 23$

Option (d) is correct

36. (a) A.T.Q., interchange the sign + and ÷ and no. 2 and 8 in option (a.)

$$\Rightarrow 2 + 8 \div 4 = 2$$

$$\Rightarrow 8 \div 2 + 4 = 8$$

$$\Rightarrow 4 + 4 = 8$$

$$\Rightarrow 8 = 8$$

Option (a) is correct.

37. (c) $50 + 10 \div 25 \times 5 - 3 = ?$

Put the mathematical sign to place of given sign.

$$\Rightarrow 50 - 10 + 25 \div 5 \times 3
\Rightarrow 50 - 10 + 5 \times 3 = 50 - 10 + 15
\Rightarrow 65 - 10 = 55$$

38. (b) (18*9*14)*37*4

Put the mathematical sign in given option (b).

$$\Rightarrow (18 \times 9 - 14) \div 37 = 4
\Rightarrow (162 - 14) \div 37 = 4
\Rightarrow 148 \div 37 = 4
\Rightarrow 4 = 4$$

Option (b) is correct.

39. (b) $27 - 2 + 24 \times 8 \div 4$

Put the mathematical sign to replace given sign

$$\Rightarrow$$
 27 × 2 - 24 ÷ 8 + 4
= 54 - 3 + 4 = 55

40. (d)
$$45 - 9 \div 3 + 5 \times 6 = 32$$

Interchange the sign \div and - \Rightarrow 45 \div 9 - 3 + 5 × 6 = 32 \Rightarrow 5 - 3 + 30 = 32

$$\Rightarrow \qquad \qquad 3 - 3 + 30 - 32$$

$$\Rightarrow \qquad \qquad 32 = 32$$

Option (d) is correct