



# MISSION SSC 2023



**TARGET: CGL • CHSL • MTS • CPO**

**MATHS**

## SIMPLIFICATION

$$\left(1 - \frac{1}{2^2}\right) \left(1 - \frac{1}{3^2}\right) \left(1 - \frac{1}{4^2}\right) \left(1 - \frac{1}{5^2}\right) \left(1 - \frac{1}{20^2}\right) = ?$$



**BY SHUBHAM MAHENDRAS**

**LIVE | 04:00 PM**



# UPCOMING ONLINE BATCHES

## MARCH 2023

01 MARCH 2023

10:30 AM to 12:30 PM

**SSC ONLINE LIVE CLASS**

**BILINGUAL**

15 MARCH 2023

08:00 AM to 10:00 AM

**BANK ONLINE LIVE CLASS**

**BILINGUAL**

29 MARCH 2023

08:00 AM to 10:00 AM

**SSC ONLINE LIVE CLASS**

**BILINGUAL**

22 MARCH 2023

02:00 PM to 04:00 PM

**BANK ONLINE LIVE CLASS**

**ENGLISH & BENGALI**

05 APRIL 2023

05:30 PM to 07:30 PM

**BANK ONLINE LIVE CLASS**

**BILINGUAL**





# MISSION SSC 2023

# MATHS





# MISSION SSC 2023

## MATHS



$$\sqrt[3]{-2197} \times \sqrt[3]{-125} \div \sqrt[3]{\frac{27}{512}}$$



- 1.  $1.492/7$
- 2.  $2.520/3$
- 3.  $3.554/7$
- 4.  $4.571/5$



# MISSION SSC 2023

# MATHS



$$(3^{34} + 3^{34} + 3^{34})(2^{34} + 2^{34}) = 6^x \quad , \quad \text{Find } x = ?$$



- 1. 33
- 2. 34
- 3. 35
- 4. 36



# MISSION SSC 2023

## MATHS



$$(x^x)^{5/4} = x^{x^{5/4}}, \text{ find } x = ?$$



- 1.  $\frac{1}{125}/64$
- 2.  $\frac{625}{256}$
- 3.  $\frac{25}{16}$
- 4.  $\frac{5}{4}$



# MISSION SSC 2023

# MATHS



$$x^x \sqrt{x} = (x\sqrt{x})^x, \text{ Find } x = ?$$



- 1.  $3/2$
- 2.  $9/4$
- 3.  $81/16$
- 4.  $27/8$



# MISSION SSC 2023

## MATHS



$$3^{8^{2x}} = 81^{2^{5x}}$$



- 1.1
- 2.2
- 3.3
- 4.4



# MISSION SSC 2023

## MATHS



If  $3x - y = 12$ ,     Find  $\frac{8^x}{2^y} = ?$



- 1. 4096
- 2. 2012
- 3. 8192
- 4. 2048



# MISSION SSC 2023

## MATHS



$3^{x+y} = 81, \quad 81^{x-y} = 3, \quad \text{Find } x = ?$



- 1.  $\frac{1.255}{64}$
- 2.  $\frac{1.125}{32}$
- 3.  $\frac{2.240}{64}$
- 4. NOT



# MISSION SSC 2023

# MATHS



$$8^{3x-5} = \frac{1}{32^{7-4x}}$$

find x = ?

- 1. 16/9
- 2. 20/11
- 3. 25/13
- 4. 2



# MISSION SSC 2023

# MATHS



$$625^{2x-3} = 25^{6^1} \cdot 15^{28}$$



- 1.2
- 2.3
- 3.4
- 4.5



# MISSION SSC 2023

## MATHS



$$\left(\frac{x}{y}\right)^{5a-3} = \left(\frac{y}{x}\right)^{17-3a}$$



1. -6
2. -5
3. -7
4. -8



# MISSION SSC 2023

# MATHS

