

CDS 1 2025

LIVE

MATHS

LOGARITHMS &
SET THEORY

MCQS

NAVJYOTI SIR

SSBCrack

Crack
EXAMS



20 Feb 2025 Live Classes Schedule

9:00AM	20 FEBRUARY 2025 DAILY DEFENCE UPDATES	DIVYANSHU SIR
10:00AM	20 FEBRUARY 2025 DAILY CURRENT AFFAIRS	RUBY MA'AM

SSB INTERVIEW LIVE CLASSES

9:30AM	MOCK PERSONAL INTERVIEWS	ANURADHA MA'AM
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AFCAT 1 2025 LIVE CLASSES

12:00PM	AFCAT 1 2025 MAHA MARATHON - PART 2	
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NDA 1 2025 LIVE CLASSES

10:00AM	MATHS - INTEGRATION - CLASS 2	NAVJYOTI SIR
11:30AM	GK - OCEANOGRAPHY	RUBY MA'AM
1:00PM	BIOLOGY - CLASS 9	SHIVANGI MA'AM
4:30PM	WORD CLASSES - CLASS 1	ANURADHA MA'AM

CDS 1 2025 LIVE CLASSES

11:30AM	GK - OCEANOGRAPHY	RUBY MA'AM
1:00PM	BIOLOGY - CLASS 9	SHIVANGI MA'AM
4:30PM	WORD CLASSES - CLASS 1	ANURADHA MA'AM
5:30PM	MATHS - LOGARITHMS & SET THEORY	NAVJYOTI SIR



What is the value of $\log_9 27 + \log_8 32$?

- A. $7/2$
- B. $19/6$
- C. 4
- D. 7

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- B. $19/6$**
- C. 4
- D. 7

For what value(s) of x is $\log_{10}\{999 + \sqrt{x^2 - 3x + 3}\} = 3$?

A. 0, 1

B. 1

C. 2

D. 1, 2

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A. 0, 1

B. 1

C. 2

D. 1, 2

$\frac{1}{(\log_a bc) + 1} + \frac{1}{(\log_b ac) + 1} + \frac{1}{(\log_c ab) + 1}$ is equal to

- A. 1
- B. 2
- C. 0
- D. abc

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- A. 1
- B. 2
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If $\log_y x = 8$ and $\log_{10y} 16x = 4$, then find the value of y .

- (a) 1 (b) 2 (c) 3 (d) 5

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ANSWER : D

If $(0.2)^x = 2$ and $\log_{10} 2 = 0.3010$, then what is the value of x to the nearest tenth ?

- A. – 10.0
- B. – 0.5
- C. – 0.4
- D. – 0.2

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A. – 10.0

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C. – 0.4

D. – 0.2

In a class containing 200 students, n students prefer both tea and coffee; $2n$ students prefer coffee, $3n$ students prefer tea; $4n$ students prefer neither tea nor coffee. What is the value of n ?

PYQ – 24 - II

- (a) 20
- (b) 25
- (c) 30
- (d) 35

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PYQ – 24 - II

- (a) 20
- (b) 25
- (c) 30
- (d) 35

Ans: (b)

PYQ – 24 - II

In a class of 160 students, each of them opt at least one language from among English, Hindi and Sanskrit. It is found that 130 students opt English, 120 students Hindi and 110 Sanskrit. If the students opt either only one language or all three languages, then what is the number of students who study all three languages ?

- (a) 40
- (b) 60
- (c) 80
- (d) 100

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Ans: D

Directions Consider the information given below and answer the two items that follow

In a class, 54 students are good in Hindi only, 63 students are good in Mathematics only and 41 students are good in English only. There are 18 students who are good in both Hindi and Mathematics. 10 students are good in all three subjects.

Q) What is the number of students who are good in Hindi and Mathematics but not in English?

(a) 18

(b) 12

(c) 10

(d) 8

Q) What is the number of students who are good in Hindi and Mathematics but not in English?

(a) 18

(b) 12

(c) 10

(d) 8

Ans: (d)

Q) What is the number of students who are good in either Hindi or Mathematics but not English?

(a) 99

(b) 107

(c) 125

(d) 130

Q) What is the number of students who are good in either Hindi or Mathematics but not English?

(a) 99

(b) 107

(c) 125

(d) 130

Ans: (c)