

## Master Math for JEE Main & JEE Advanced

Crash Courses designed specifically for students who want to improve their percentile & score in upcoming JEE Main & JEE Advanced exam. **Tap on the banners to know more.**

For JEE Main 2020 April



**JEE MAIN APRIL CRASH COURSE**  
**TARGET 99+ PERCENTILE IN MATH**

**REGISTER NOW**  
Limited Seats!



For JEE Advanced 2020



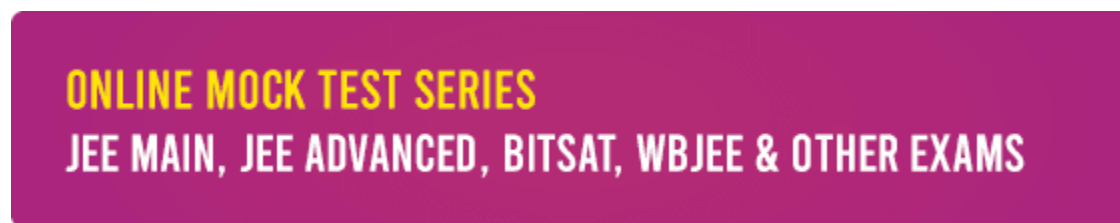
**JEE ADVANCED CRASH COURSE**  
**TARGET YOUR DREAM IIT**

**REGISTER NOW**  
Limited Seats!



## Online Mock Test Series

Take online mock tests for a solid practice for your upcoming JEE Main, JEE Advanced, BITSAT & other competitive exams. All the subjects are included. **Tap on the banner.**



**ONLINE MOCK TEST SERIES**  
**JEE MAIN, JEE ADVANCED, BITSAT, WBEE & OTHER EXAMS**

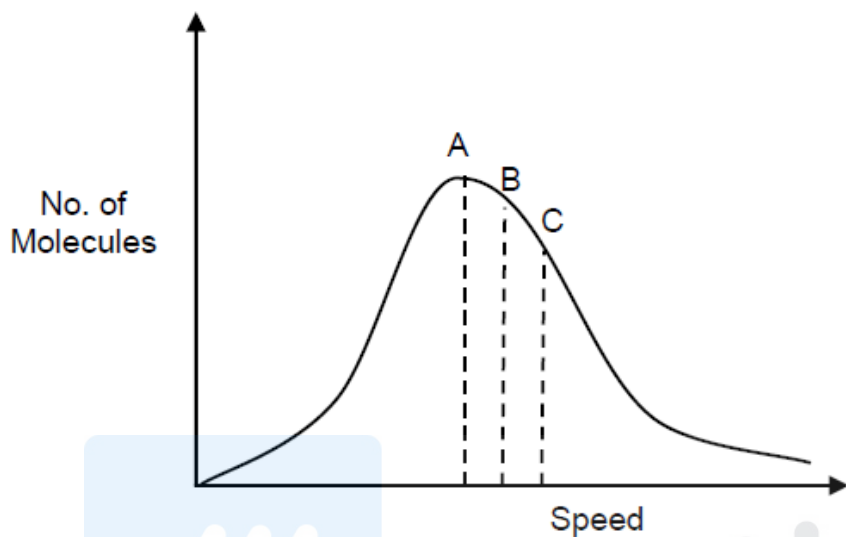
## Free Study Materials

Download PDF of study materials like notes, formula sheets, practice questions, previous year question papers from our website. Visit [www.mathongo.com](http://www.mathongo.com) now!

## JEE Mains 2020 Jan Chapter wise Question Bank

## Gaseous State

Q1



Select the correct options :

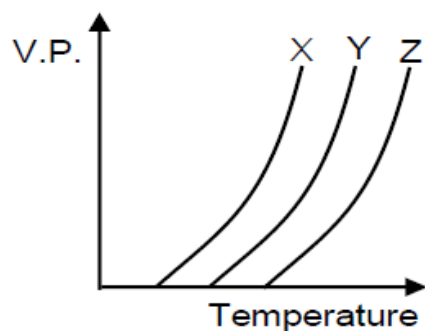
(1)  $A = C_{MPS}$ ,  $B = C_{Average}$ ,  $C = C_{RMS}$ (2)  $A = C_{Average}$ ,  $B = C_{MPS}$ ,  $C = C_{RMS}$ (3)  $A = C_{RMS}$ ,  $B = C_{Average}$ ,  $C = C_{MPS}$ ,(4)  $A = C_{MPS}$ ,  $B = C_{RMS}$ ,  $C = C_{Average}$ 7<sup>th</sup> Jan Evening

Sol

(1)

$$C_{RMS} > C_{Avg} > C_{MPS}$$

Q2



- (A) Intermolecular force of attraction of  $X > Y$ .  
 (B) Intermolecular force of attraction of  $X < Y$ .  
 (C) Intermolecular force of attraction of  $Z < X$ .

Select the correct option(s).

- (1) A and C                      (2) A and B                      (3) B only                      (4) B and C

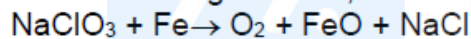
8<sup>th</sup> Jan Morning

Sol

- (3)  
 At a particular temperature as intermolecular force of attraction increases vapour pressure decreases.

Q3

Given following reaction,



In the above reaction 492 L of  $\text{O}_2$  is obtained at 1 atm & 300 K temperature.

Determine mass of  $\text{NaClO}_3$  required (in kg).

( $R = 0.082 \text{ L atm mol}^{-1} \text{ K}^{-1}$ )

8<sup>th</sup> Jan Evening

Sol

02.13

mol of  $\text{NaClO}_3 = \text{mol of O}_2$

$$\text{mol of O}_2 = \frac{PV}{RT} = \frac{1 \times 492}{0.082 \times 300} = 20 \text{ mol}$$

$$\text{mass of NaClO}_3 = 20 \times 106.5 = 2130 \text{ g}$$

## Master Math for JEE Main & JEE Advanced

Crash Courses designed specifically for students who want to improve their percentile & score in upcoming JEE Main & JEE Advanced exam. **Tap on the banners to know more.**

For JEE Main 2020 April



**JEE MAIN APRIL CRASH COURSE**  
**TARGET 99+ PERCENTILE IN MATH**

**REGISTER NOW**  
Limited Seats!



For JEE Advanced 2020



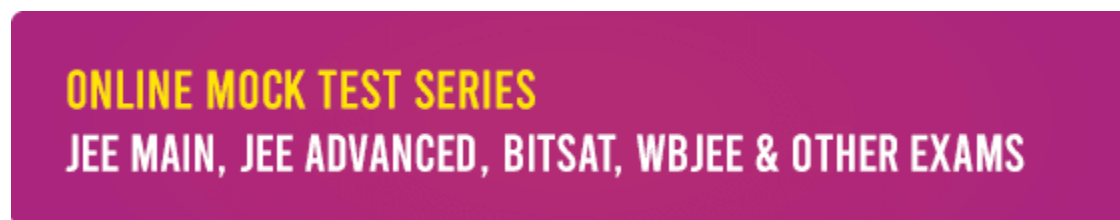
**JEE ADVANCED CRASH COURSE**  
**TARGET YOUR DREAM IIT**

**REGISTER NOW**  
Limited Seats!



## Online Mock Test Series

Take online mock tests for a solid practice for your upcoming JEE Main, JEE Advanced, BITSAT & other competitive exams. All the subjects are included. **Tap on the banner.**



**ONLINE MOCK TEST SERIES**  
**JEE MAIN, JEE ADVANCED, BITSAT, WBEE & OTHER EXAMS**

## Free Study Materials

Download PDF of study materials like notes, formula sheets, practice questions, previous year question papers from our website. Visit [www.mathongo.com](http://www.mathongo.com) now!