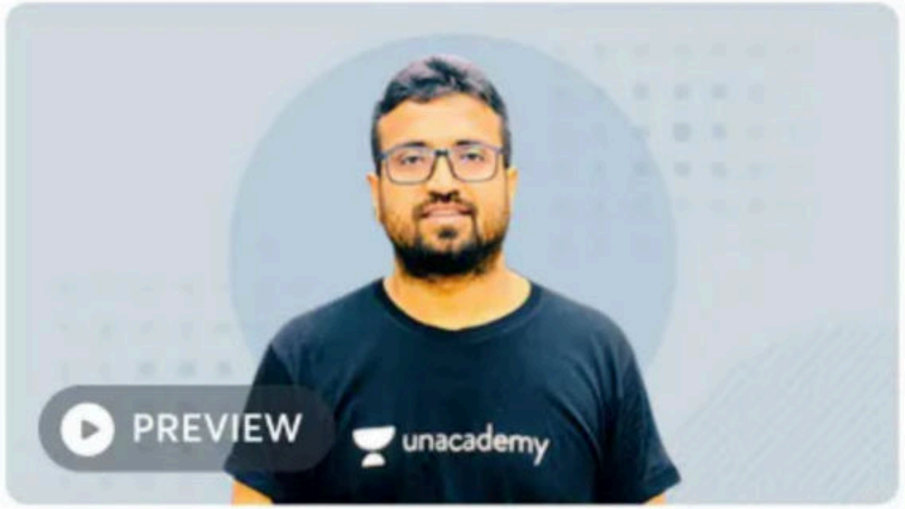
Number System - I

Complete Course on General Aptitude for GATE 2023/2024

Saurabh Thakur • Lesson 2 • Oct 16, 2022



HINDI GA,GS AND MATHEMATICS

Complete Course on General Aptitude for GATE 2023/2024

Saurabh Thakur

Ends on Jan 29, 2023

Oct 14 - Jan 29 • 16 weeks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Pick the odd one out in the following : 13, 23, 33, 43, 53

(A) 23 (B) 33

(C) 43 (D) 53

[GATE 2016 : IISc Bangalore (EE Set - 2)]

The number that least fits this set: (324, 441, 97 and 64) is _____.

(A) 324

(B) 441

(C) 97

(D) 64

[GATE 2016 : IISc Bangalore (IN)]

Find the next term in the sequence: 7G, 11K, 13M, _____.

(A) 15Q (B) 17Q

(C) 15P (D) 17P

[GATE 2014 : IIT Kharagpur (EC Set - 3, ME Set - 3)]

Find the next term in the sequence: 13M, 17Q, 19S, _____.

(A) 21W (B) 21V

(C) 23W (D) 23V

[GATE 2014 : IIT Kharagpur (EC Set - 4, ME Set - 4)]

Find the missing sequence in the letter series below:

A, CD, GHI,?, UVWXY

(A) LMN

(B) MNO

(C) MNOP

(D) NOPQ

[GATE 2015 : IIT Kanpur (EC Set - 3, ME Set - 2)]

Given the sequence of terms, AD CG FK JP, the next term is

(A) OV (B) OW

(C) PV (D) PW

[GATE 2012 : IIT Delhi (ME, CE, CSE)]

If the number $715 \blacksquare 423$ is divisible by 3 ($\blacksquare$ denotes the missing digit in the thousandths place), then the smallest whole number in the place of $\blacksquare$ is _____.

A. 0
B. 2
C. 5
D. 6

[GATE 2018 : IIT Guwahati (EC Set – 1)]

If ROAD is written as URDG, then SWAN should be written as:

(A) VXDQ (B) VZDQ

(C) VZDP (D) UXDQ

[GATE 2015 : IIT Kanpur (CE Set - 1, CSE Set - 3)]

Which number does not belong in the series below :

2, 5, 10, 17, 26, 37, 50, 64

(A) 17 (B) 37

(C) 64 (D) 26

[GATE 2014 : IIT Kharagpur (EE Set - 3, CSE Set - 3)]

Find the missing group of letters in the following series :

BC, FGH, LMNO, _____.

(A) UVWXY (B) TUVWX

(C) STUVW (D) RSTUV

[GATE 2018 : IIT Guwahati (ME Set – 2)]

If the list of letters, P,R,S,T,U is an arithmetic sequence, which of the following are also in arithmetic sequence?

I. 2P, 2R, 2S, 2T, 2U

II. P- 3,R-3,S- 3,T- 3,U- 3

III. P2 , R2 , S2 ,T2 ,U2

(A) I only (B) I and II

(C) II and III (D) I and III

[GATE 2015 : IIT Kanpur (EE Set - 2, CSE Set - 2)]

If a and b are integers and a - b is even, which of the following must always be even?

(A) ab
(B) $a^2 + b^2 + 1$
(C) $a^2 + b + 1$
(D) ab - b

[GATE 2017 : IIT Roorkee (ME Set – 2)]

Given that a and b are integers and $a + a^2 b^3$ is odd then, which one of the following statements is correct?

(A) a and b are both odd
(B) a and b are both even
(C) a is even and b is odd
(D) a is odd and b is eve

[GATE 2018 : IIT Guwahati (ME Set – 1)]

What is the next number in the series :

12 35 81 173 357 _____

[GATE 2014 : IIT Kharagpur
(EC Set - 1, ME Set - 1)]

The next term in the series 81, 54, 36, 24 … is _____

[GATE 2014 : IIT Kharagpur (EC Set - 3, ME Set - 3)]

If ROAD is written as URDG, then SWAN should be written as:

(A) VXDQ (B) VZDQ

(C) VZDP (D) UXDQ

[GATE 2015 : IIT Kanpur (CE Set - 1, CSE Set - 3)]

In a certain code, AMCF is written as EQGJ and NKUF is written as ROYJ. How will DHLP be written in that code?

(A) RSTN (B) TLPH

(C) HLPT (D) XSVR

[GATE 2018 : IIT Guwahati (EE Set – 1)]

The missing number m the given sequence 343, 1331, _____, 4913 is

(A) 4096 (B) 2744

(C) 2197 (D) 3375

[GATE 2019 : IIT Madras (EE)]

M has a son Q and a daughter R. He has no other children. E is the mother of P and daughter-in-law of M. How is P related to M?

(A) P is the son-in-law of M.
(B) P is the grandchild of M.
(C) P is the daughter-in law of M.
(D) P is the grandfather of M.

[GATE 2016 : IISc Bangalore (IN)]

What is the value of $1+\frac{1}{4}+\frac{1}{16}+\frac{1}{64}+\frac{1}{256}+\ldots.?$

(A) 2 (B) $\frac{7}{4}$

(C) $\frac{3}{2}$ (D) $\frac{4}{3}$

[GATE 2018 : IIT Guwahati (EC Set – 1)]

The value of $\sqrt{12+\sqrt{12+\sqrt{12+\ldots}}}$ is

(A) 3.464
(B) 3.932
(C) 4.000
(D) 4.444

[GATE 2014 : IIT Kharagpur (EE Set - 2, CSE Set - 2)]

What will be the maximum sum of 44, 42, 40, ... ?

(A) 502 (B) 504

(C) 506 (D) 500

[GATE 2013 : IIT Bombay (ME, CSE)]

Find the smallest number y such that : $y \times 162$ is a perfect cube.

(A) 24 (B) 27
(C) 32 (D) 36

[GATE 2017 : IIT Roorkee (EE, CS, Set - 1)]

Fill in the missing number in the series :

2 3 6 15 _____ 157.5 630.

[GATE 2014 : IIT Kharagpur (EC Set - 2, ME Set - 2)]