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Best Quality Classroom Topper Hand Written Notes to Crack GATE, IES, PSU's & Other Government Competitive/ Entrance Exams

UNACADEMY
REASONING & APTITUDE
BY-SAURBH THAKUR SIR

- Theory
- Explanation
- Derivation
- Example
- Shortcuts
- Previous Years Question With Solution

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1.

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WARRIOR

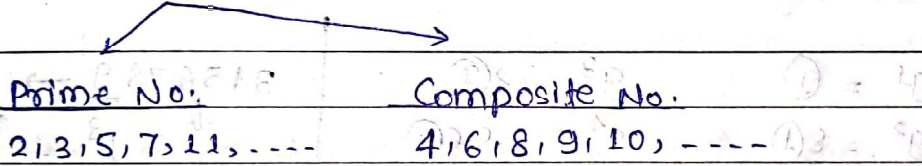
* Aptitude → - Quant
- DI/LR
- Verbal

10 Que ← Gate

5Q - 1M 5Q - 2M = 5x1 + 5x2 = 15 Marks

* Numbers :-

① Natural Numbers :- 1, 2, 3, 4, ...



① is neither prime nor composite.

② is the only even prime number.

Que. 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)

Ans: [b] 33 Ans: → composite, others are primes

* 2 B

3 C

5 E

7 G

11 K

Ans:

Que. 2014: IIT KGP (EC, ME)

find the next term in sequence:

7G, 11K, 13M, _____

- (a) 15Q (b) 17Q (c) 15P (d) 17P

Ans: [b] 17Q Ans:

Date ___/___/___

*** NOTE :-**

• 1 Natural No	→	1	$1^2 = 1^{2002} = 1$
• 5 Natural No	→	5	$5^2 = 25, 5^3 = 125$
• 6 Natural No	→	6	$6^2 = 36, 6^3 = 216$

*** •** $4^1 = 4$ $4^3 = 64$
 $4^2 = 16$ $4^4 = 256$

→ 4 ^{odd}	→	UDV = 4
→ 4 ^{even}	→	UDV = 6

*** •** $9^1 = 9$ $9^3 = 729$
 $9^2 = 81$ $9^4 = 6561$

• 9 ^{odd}	→	UDV = 9
• 9 ^{even}	→	UDV = 1

$3456789^3 \rightarrow \text{UDV} = 9$
 $\downarrow = 9^3 \nearrow$

जितना digit पुका जाए
उतने digit पर ही
ध्यान दो ।

→ $434987619^{2000} \approx 9^{2000} \rightarrow 9^{\text{even}} \rightarrow \text{UDV} = 1$ Ans.

Que The unit's place in 26591749^{110016} is

- (a) 6 (b) 1 (c) 3 (d) 9

IIT Delhi, Gate 2020

Ans: **[b]** $\approx 9^{110016} \rightarrow 9^{\text{even}} \rightarrow \text{UDV} = 1$ Ans.

Date ___/___/___

(*)

Break / Brake
आराम bike scooty का brake

Que. The driver applied the _____ as soon as she approached the hotel where she wanted to take a _____.

- (a) brake, break
- (b) break, break
- (c) brake, brake
- (d) breaks, brake

IIT Guwahati, GATE 2018

Ans.

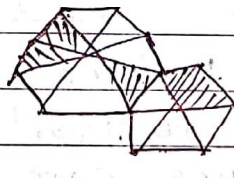
a

(*)

IIT Bombay - 2021 → Spatial (स्पेशियल) Aptitude.

- Mirror Image
- Paper cutting
- Paper folding
- water Image, ... etc.

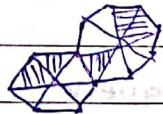
Que. For the picture shown, which of the following is the correct picture representing reflection with respect to the mirror shown as the dotted line?



IIT Kharagpur, Gate 2022

Ans.

a



An

(*)

Perfect square :-

Sequence :

- 1
 - 4
 - 9
 - 16
 - 25
- Sequence: x^2
 $x^2 \pm 1/2/3$
 1, 4, 9, 16, 25, 36