



DELHI POLICE 2025
CONSTABLE HCM AWO/TPO DRIVER

यकीन बैच

MATHS



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Number System

(संख्या पद्धति)

Part -5



LIVE
STREAMING

21-01-2025 11:00 AM

$$\left\{ \begin{array}{l} \textcircled{I} \quad \overset{2}{\underbrace{-+ -+}} = \text{Even} \end{array} \right.$$

$$\left\{ \begin{array}{l} \textcircled{II} \quad \overset{2}{-+ -+ -+} = \text{odd} \end{array} \right.$$

2478.1935

place value :-

- 7 $\rightarrow$ 70
- 2 $\rightarrow$ 2000
- 9 $\rightarrow$ 0.9
- 5 $\rightarrow$ 0.0005

Unit digit
इकाई का अंक ::

243125
↑↑↑↑↓

$$\Rightarrow 24 \times 23 \times 72 \times 119 \times 148 \times 107 = 6$$

$$\Rightarrow 25 \times 26 \times 27 \times 28 \times 119 \times 142 \times 131 = 0$$

$$\Rightarrow 25 \times 113 \times 117 \times 121 \times 339 \times 403 = 5$$

Powers ::

1, 5, 6, 0

Power का कोई पावर नहीं पड़ता

$(11)^{553} = 1$	$(216)^{819} = 6$
$(255)^{1029} = 5$	$(515)^{1000000} = 5$
$(816)^{413} = 6$	$(811)^{9083} = 1$
$(520)^{943} = 0$	

Unit digit $\Rightarrow 4$

(4)^{सम/Even} = 6

(4)^{विषम/Odd} = 4

$4^2 = 16$
 $4^1 = 4$

2, 4, 6, 8, 0

1, 3, 5, 7, 9

(4)⁹⁸ = 6

(4)⁴³¹ = 4

(4)⁹⁰⁸² = 6

(4)¹⁰⁰⁰ = 6

Unit digit - 9 :

(9)^{सम/Even} = 1

(9)^{विषम/Odd} = 9

(9)⁵¹³ = 9

(9)⁸¹⁶ = 1

(9)⁸³³ = 9

(9)¹⁰⁹⁴ = 1

Ex:

⁹⁸³
(811) × (266) × (104)⁸⁹²

1 × 6 × 6

⑥

Unit digit — 2, 3, 7, 8 ✓

a) Power/4

b) शेषफल बचे उसे Unit digit पर लगा देना है वही आपका Ans होगा।

c) अगर Power पूरी पूरी Divide हो जाती है तो Unit digit पर Power(4) लगा दो।

$$\Rightarrow (232) \frac{4711}{4} \\ 2^3 = \textcircled{8}$$

$$(117) \frac{393}{4} \\ \Rightarrow 7^3 \Rightarrow 34\textcircled{3} \\ 7 \times 7 \times 7$$

$$(118) \frac{291}{4} \\ \textcircled{8}$$

$$(213) \frac{1250}{4} = 3^2 = \textcircled{9}$$

$$\Rightarrow \textcircled{i} \quad (22) \frac{18}{4} = 2^2 = 4$$

$$\textcircled{ii} \quad (212) \frac{90}{4} = 2^2 = 4$$

$$\textcircled{iii} \quad (322) \frac{48}{4} = 2^4 = 4 \times 4 = \textcircled{6}$$

$$(237) \frac{93}{4} = 7^1 = 7$$

$$(517) \frac{82}{4} = 7^2 = 49 \textcircled{1}$$

$$(827) \frac{84}{4} = 7^4 = 49 \times 49 = \textcircled{1}$$

$$(218) \frac{12}{4} = 8^4 = 64 \times 64 = \textcircled{6}$$

$$(228) \frac{91}{4} = 8^3 = 8 \times 8 \times 8 = \textcircled{2}$$

$$(1028) \frac{44}{4} = 8^4 = 64 \times 64 = \textcircled{6}$$

Ex: ① $(213)^{\frac{14}{57}} \times (412)^{\frac{819}{4}} \times (624)^{\frac{312}{4}} =$
 $\frac{3 \times 8 \times 6}{4} = 4$

② $(511)^{\frac{639}{1}} \times (816)^{\frac{963}{6}} \times (1029)^{\frac{971}{9}} =$
 $\Rightarrow 1 \times 6 \times 9 = 4$

③ $(410)^{\frac{919}{0}} \times (413)^{\frac{827}{0}} \times (512)^{\frac{763}{0}} \times (324)^{\frac{804}{0}} = 0$

④ $(825)^{\frac{943}{5}} \times (511)^{\frac{724}{5}} \times (632)^{\frac{834}{5}} = 0$
 $\times 44$

$$\Rightarrow (513)^{489} - (27)^{234}$$

Unit digit