



DSSSB + SSC MTS



दफ्तारी बैच

MATHS

Demo-03

Number System

(इकाई का अंक) Part-02



LIVE

13-03-2024 08:00 AM



TIME TABLE

DSSSB + SSC MTS



दफ्तरी बैच



MATHS

LIVE 08:00 AM



REASONING

LIVE 09:00 AM



ENGLISH

LIVE 10:00 AM



HISTORY

LIVE 12:00 PM



GEO. & ECO.

LIVE 01:00 PM



SCIENCE

LIVE 02:00 PM



हिंदी

LIVE 04:00 PM



POLITY

LIVE 06:00 PM

➡ **Registration Starts from 5th March**

➡ **Classes Start from 11th March**



DSSSB + SSC MTS



दफ्तरी बैच





TIME TABLE

DSSSB TGT



Scholar Batch

PRT (Part -B)



**Educational
Psychology**
LIVE 03:00 PM

DSSSB TGT (Part-B)



MATHS

LIVE 08:00 AM



हिंदी

LIVE 09:00 AM



संस्कृत

LIVE 05:00 PM

From 12 March



ENGLISH

LIVE 07:00 PM



SOCIAL SCIENCE

LIVE 08:00 PM

Classes Start from 11th March

कोर्स कैसे PURCHASE करें ?



Step 1: Home Screen
Hello, RWA
DSSSB + SSC MTS दफ्तरी बैच
Features: Live Classes, Mock Test, Doubt Group, Class Notes PDF, Experienced Teachers
Price: ₹799/-
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Final Price: ₹640/-
Registration Starts from 5th March
Classes Start from 10th March
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Registration Starts from 5th March
Classes Start from 10th March
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Total: ₹640/-
Coupon Applied Successfully - Flat 20% off
Buttons: Pay Online



TIME TABLE

DSSSB TGT

PRT (Part-A)



Scholar Batch



C.A

LIVE 06:00 AM



MATHS

LIVE 08:00 AM



हिंदी

LIVE 09:00 AM



ENGLISH

LIVE 10:00 AM



HISTORY

LIVE 12:00 PM

From 12 March



GEOGRAPHY

LIVE 01:00 PM



REASONING

LIVE 03:00 PM



POLITY

LIVE 06:00 PM

Classes Start from 11th March



DSSSB PRT, TGT & PGT



(Part-A)

FEATURES

- ▶ Live Classes
- ▶ Mock Test
- ▶ Doubt Group
- ▶ Class Notes PDF
- ▶ Experienced Teachers

SCHOLAR BATCH

~~₹799/-~~

20%
off

Coupon Code: **PTP20**

₹640/- ✓



- ▶ Registration Starts from 6th March
- ▶ Classes Start from 11th March

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RWA APP NOW



4) 307

H.W.

$$x = (433)^{24} - (377)^{38} + (166)^{54} \text{ का U.D. = ?}$$

$$3^4 - 7^2 + 6$$

$$1 - 9 + 6$$

$$7 - 9$$

$$\Rightarrow -2 + 10 \Rightarrow +8$$

$$17 - 9 = 8$$

$$\begin{array}{c} 8 \\ 7 \\ 6 \\ 5 \end{array}$$

1. Find the unit digit of $83 \times 87 \times 93 \times 59 \times 61$.

$83 \times 87 \times 93 \times 59 \times 61$ का इकाई अंक ज्ञात कीजिए।

1. 9

2. 4

3. 7

4. 3

$3 \times 7 \times 3 \times 9 \times 1$
 $21 \times 3 \times 9 \times 1$
 $63 \times 9 \times 1$
 567×1
 $\Rightarrow 7$

(0, 1, 5, 6)

(4, 9)

$$\begin{array}{r} 4 \overline{) 903} \text{ (225)} \\ \underline{8} \\ 10 \\ \underline{8} \\ 23 \\ \underline{20} \\ 3 \end{array}$$

power
(2, 3, 7, 8)

4) power

शेषफल
← power

903 का U.D = ?
(1208)

24 51 (2)

$(1997)^{1996}$ का O.D. = ?

$$\begin{array}{r} 4 \overline{) 96} (24 \\ \underline{96} \\ x \end{array}$$

$$\begin{array}{c} 4 \\ 7 \Rightarrow 7^2 \times 7^2 \\ 9 \times 9 \\ \hline 1 \end{array}$$

Factorial (क्रमगुणित)

* 13 से बड़े सभी Factorials
4 से divisible होंगे।

* 14 से बड़े सभी factorials
का U.D. हमेशा शून्य (0)
होगा।

$$1! = 1 = 1$$

$$2! = 2 \times 1 = 2$$

$$3! = 3 \times 2 \times 1 = 6$$

$$4! = 4 \times 3 \times 2 \times 1 = 24$$

$$5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$$

$$6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$$

Q → $1! + 2! + 3! + \dots - 1999!$ का U.D = ?
 $\underbrace{1! + 2! + 3! + 4!}_{(3)}$

⇒ $\boxed{1! + 2! + 3! + 4!}^{24} + 5! + \dots - 999!$
 → $1 + 2 + 6 + 4 + 0 + 0 + 0 + 0 + 0$ U.D = ?

इसलिए अंक = (3)

$(1000!)$

2. प्रथम 150 पूर्ण संख्याओं के योग का इकाई अंक क्या है?

What is the unit digit of the sum of first 150 whole numbers?

1. 9

2. 5

3. 0

4. 1

Ho. Co.

3. $3^{53} - 6^{38} + 27^{56}$ की गणना करने पर प्राप्त संख्या में इकाई स्थान का अंक है:

The digit in the unit's place in the number obtained after calculating $3^{53} - 6^{38} + 27^{56}$ is:

1. 4

2. 2

3. 8

4. 6

$$3^{53} - 6^{38} + 27^{56}$$

$$3^1 - 6 + 7^4$$

$$3 - 6 + 1$$

$$4 - 6 \Rightarrow -2 + 10 \Rightarrow 8$$

$$7^2 \times 7^2 \\ 9 \times 9 \\ 1$$

4. पूर्णांक 1 की इकाई स्थिति में अंक $1! + 2! + 3! + \dots + 99!$ है

The digit in the unit position of the integer $1! + 2! + 3! + \dots + 99!$ is

1. 7

2. 3

3. 1

4. 0

$$1! + 2! + 3! + \dots + 99!$$

$$1 + 2 + 6 + 24 + 0 + 0 + 0 + 0 + 0 + 0$$

3

5. $[(25^{43} \times 56^{42}) + 456^{25} + 23^{42} + 76^{23}]$ का इकाई अंक है-

The unit digit of $[(25^{43} \times 56^{42}) + 456^{25} + 23^{42} + 76^{23}]$ is -

1. 1

2. 2

3. 3

4. 4

$$(5 \times 6) + 6 + 3^2 + 6$$

$$6 + 9 + 6$$

$$21$$

6. 1 में इकाई अंक ज्ञात कीजिये! $+2! + 3! + 4! + \dots + 50!$

Find the unit digit in $1! + 2! + 3! + 4! + \dots + 50!$

1.1

2.3

3.5

4.8

$$1 + 2 + 6 + \cancel{4} + 0 + 7 + 0 + 0 + 0$$



7. यदि $N = 7^{95} - 3^{58}$ है, तो N के इकाई स्थान पर अंक है।

If $N = 7^{95} - 3^{58}$, then the digit at the unit place of N is.

1. 3

2. 4

3. 6

4. 7

8. $(432)^{412} \times (499)^{431}$ का इकाई अंक ज्ञात कीजिए।

Find the unit digit of $(432)^{412} \times (499)^{431}$.

1. 2

2. 4

3. 6

4. 8

इकाई अंक क्या है?

$$\begin{array}{c} 8^2 \times 8^2 \\ 4 \times 4 \end{array}$$

If $x = 1 + 2^2 + 3^3 + 4^4 + \underline{\hspace{2cm}} + 10^{10}$, then what is unit digit of x ?

1. 3

2. 7

3. 5

4. More than one of the above

$$1 + 2^2 + 3^3 + 4^4 + 5^5 + 6^6 + 7^7 + 8^8 + 9^9 + 10^{10}$$

$$1 + 4 + 7 + 6 + 5 + 6 + 7^3 + 8^4 + 9^1 + 0$$

$$9 + 3 + 6 + 9$$

27

$$0 \times 0 \times 0 \times 15 = 0 \times 0 \times 0 \times 0$$

$$\Rightarrow 1! \times 2! \times 3! \times \dots \times 2901! \text{ का U.D.=?}$$

$$\Rightarrow 1^1 + 2^2 + 3^3 + 4^4 + \dots + 89^{89} \text{ का U.D.=?}$$

$$1^1 + 2^2 + 6^6 + (24)^{24} + (120)^{120} + (0) + (0) + \dots$$

$$1 + 4 + 6 + 6 + 0 + 0 + 0 + 0 + \dots$$

$$\text{U.D.} \Rightarrow 7$$

$$\underline{1} * \underline{2} * \underline{3} * \underline{4} \text{ का } \text{U.D} = ?$$
$$\Rightarrow \underbrace{1 + 2 + 6 + 24} \Rightarrow \textcircled{3}$$

$$\underline{1} \times \underline{2} \times \underline{3} \times \underline{4} \text{ का } \text{U.D} = ?$$
$$\underbrace{1 \times 2 \times 6 \times 24}$$
$$\textcircled{8}$$

$$\overline{181} + \overline{182} + \overline{7203} \text{ का U.D. = ?}$$

$$(\dots \overset{181}{0}) + (\dots \overset{182}{0}) + (\dots \overset{7203}{0}) \Rightarrow 0$$

$$0 + 0 + 0 \Rightarrow 0$$

⇒ प्रथम 5 प्राकृत संख्याओं के योग का
U.D. = ?

$$1+2+3+4 \Rightarrow \text{U.D.}$$

प्रथम n प्राकृत संख्याओं का योग $\Rightarrow \frac{n(n+1)}{2}$

$$\frac{5 \times 5}{2} \Rightarrow 10$$

$$\frac{n(n+1)}{2}$$

प्रथम 40 प्राकृत संख्याओं के योग का U.D = ?

* Find the U.D. of the sum of first 40 natural No.?

$$\Rightarrow \frac{40 \times 41}{2}$$

प्राकृत संख्या = 1, 2, 3, 4, ... ∞

$$\Rightarrow 20 \times 41 \Rightarrow 820$$

$$\frac{n(n+1)}{2}$$

प्रथम 604 प्राकृत संख्याओं के

$$\Rightarrow \frac{302 \times 605}{2}$$

योग का UD = ?

$$302 \times 605 = 0$$

⇒ प्रथम 549 प्राकृत संख्याओं के योग को
U.D = ?

$$\frac{n(n+1)}{2} \Rightarrow \frac{549 \times \overset{275}{\cancel{550}}}{2}$$

$$549 \times 275$$

(5)

10. गुणनफल $6812 \times 3528 \times 3179 \times 4324$ में इकाई
अंक ज्ञात कीजिए।

Find the unit digit in the product $6812 \times 3528 \times 3179$
 $\times 4324$.

1. 6

2. 3

3. 7

4. 5