



 *Mahendra's*

UP Police कांस्टेबल

REASONING

CALENDAR

(PREVIOUS YEAR QUESTION)



 **4:00 PM**

LIVE 



UPCOMING ONLINE BATCHES

January 2022

05 Jan 2022

08:00 AM to 10:00 AM

BANK ONLINE LIVE CLASS

10:30 AM to 12:30 PM

SSC ONLINE LIVE CLASS

01:00 PM to 03:00 PM

SSC ONLINE LIVE CLASS

05:30 PM to 07:30 PM

BANK ONLINE LIVE CLASS

BILINGUAL

12 Jan 2022

08:00 AM to 10:00 AM

SSC ONLINE LIVE CLASS

10:30 AM to 12:30 PM

BANK ONLINE LIVE CLASS

03:00 PM to 05:00 PM

BANK ONLINE LIVE CLASS

05:30 PM to 07:30 PM

SSC ONLINE LIVE CLASS

BILINGUAL

19 Jan 2022

08:00 AM to 10:00 AM

BANK ONLINE LIVE CLASS

01:00 PM to 03:00 PM

BANK ONLINE LIVE CLASS

03:00 PM to 05:00 PM

SSC ONLINE LIVE CLASS

07:30 PM to 09:30 PM

SSC ONLINE LIVE CLASS

BILINGUAL

27 Jan 2022

10:30 AM to 12:30 PM

BANK ONLINE LIVE CLASS

07:30 PM to 09:30 PM

BANK ONLINE LIVE CLASS

08:00 AM to 10:00 AM

SSC ONLINE LIVE CLASS

01:00 PM to 03:00 PM

SSC ONLINE LIVE CLASS

BILINGUAL



TOPICS DISCUSSION

- Blood Relation(1Q)
- Coding-decoding(1-2Q)
- Sitting arrangement(2Q)
- Missing number(1-2Q)
- Alphabetical Series(1Q)
- Word formation(1Q)
- Number series(2Q)
- Analogy and classification (1Q)
- Direction(2Q)
- Blood relation(1Q)
- Venn diagram(1Q)

*Telegram channel: @ReasoningMahendraslive
@DeeptiMahendrasReasoning*

- Mirror image and water image(2Q)
- Figure embedded(1Q)
- Arithmetic reasoning(2Q)
- Clock(1Q)
- Calendar(1Q)
- Figure counting(1Q)
- Syllogism(2Q)
- Logical Reasoning(3Q)

Statement : 'The patient condition will improve after this operation'.

Assumption :

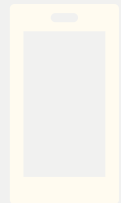
- ~~(I)~~ The patient can be operated upon in this condition. *only I*
~~(II)~~ The patient can't be operated upon in this condition.

कथन: 'इस ऑपरेशन के बाद रोगी की स्थिति में सुधार होगा'।

कल्पना :

- (I) इस स्थिति में रोगी का ऑपरेशन किया जा सकता है।
(II) इस स्थिति में रोगी का ऑपरेशन नहीं किया जा सकता है।

CALENDAR (BASIC CONCEPT)



TYPE OF YEARS

Century year
400

Century
365



Cent. leap year
366

LEAP YEAR (Consists 366 days)

Because February contains 29 days

e.g. 2000, 2004, 2008 etc.

Divisible by 4 / 400

Normal

SIMPLE YEAR (Consists 365 days)

Because February contains 28 days

2001, 2002, 2003 etc.

All simple years.

$\frac{\text{Year}}{4} = \text{exactly divisible} = \text{Leap year} = 366$
 If it is not divisible = Normal = 365

ODD DAYS IN MONTH

Week days are repeated after 7 days in the same sequence so extra days in a set of days after eliminating bunches of seven days are known as Odd Days or Extra Days.

सप्ताह के दिनों को उसी क्रम में 7 दिनों के बाद दोहराया जाता है, इसलिए सात दिनों के गुच्छों को समाप्त करने के बाद दिनों के एक सेट में अतिरिक्त दिनों को विषम दिन या अतिरिक्त दिन के रूप में जाना जाता है।

Jan

max no of odd = 6
mini no of odd = 0
124 days
$$\begin{array}{r} 7 \overline{) 124} \text{ U } 7 \\ \underline{7} \\ 54 \\ \underline{49} \\ 5 \end{array}$$

5

7) Total Days (Quotient

!
!
!

Remainder x Odd Days

Suppose

10 days

1 week
↓
7 day

$$\begin{array}{r} 7 \overline{) 10} \text{ U } 1 \\ \underline{7} \end{array}$$

$$\frac{7}{3} \Rightarrow \text{odd / days}$$

3 odd day extra day.

HOW MANY ODD DAYS IN A MONTH

MONTH	DAYS	ODD DAY	MONTH	DAYS	ODD DAY
JAN	31	3	AUG	31	3
FEB	28 OR 29	0 / 1	SEP	30	2
MAR	31	3	OCT	31	3
APR	30	2	NOV	30	2
MAY	31	3	DEC	31	3
JUN	30	2			
JULY	31	3			

ODD DAYS IN A YEAR

$$\begin{array}{r} \sqrt{366} \quad 18 \\ 35 \\ \hline 16 \\ 14 \\ \hline 2 \end{array}$$

Types of year

No. of days in a year

Odd days

Leap Year

Normal Year

366 days

365 days

2 odd days

1 odd days

ODD DAYS IN A CENTURY

$$\begin{array}{r} (24) \\ 4 \overline{) 99} \\ \underline{8} \\ 19 \end{array}$$

1 to 99

1 to (100)

$\begin{array}{r} 24 \\ \times 4 \\ \hline 75 \\ + 1 \\ \hline 76 \\ \times 1 \\ \hline (76) \end{array}$	$\begin{array}{r} 24 \\ \times 2 \\ \hline (48) \end{array}$
---	--

(100) → 1 odd day
↓
365

1 to 100 → 5 odd
101 to 200 → 5 odd
1 to 200 ⇒ 5 + 5 = 10
↓
1 week + 3 odd

$$76 + 48 = \frac{124}{7} = 5 \text{ odd days}$$

ODD DAYS IN A SET OF 4 CENTURIES

Normal Century

Century 1

100 Year

Effective OD 5

Normal Century

Century 2

200 Year

Effective OD 3

Normal Century

Century 3

300 Year

Effective OD 1

Leap Century

Century 4

400 Year

Effective OD 0

1 to 400 → 0 odd
301 to 400 → 5 odd



TYPES OF PROBLEMS

- (A) Type 1 - Find Day (Within Month)
- (B) Type 2 - Find Day (Within Year)
- (C) Type 3 - Find Day (Within Century)
- (D) Type 4 - Find Day (Reverse)
- (E) Type 5 - Find Day (Date Given)
- (F) Type 6 - Year Repeat
- (G) Type 7 - Miscellaneous Problem

Q. What was the day of the week on 17th August 2013?

6

17 अगस्त 2013 को सप्ताह का कौन सा दिन था?

- (A) Sunday
- (B) Friday
- (C) Thursday
- (D) None of these

Saturday

17 August 2013

completed year
2012

going year
2013

Jan → 3
Feb → 0
March → 3
April → 2
May → 3
June → 2
July → 3
Aug = 17 = 3

19 → 2 week +

5 extra extra

19 →

400/2000

15
2 week → 1 extra

2000
↓
6 odd

NY
9
x 1
9

LP
04 → 2
08 → 2
12 → 2
6

ODD DAY	DAYS
0	SUN
1	MON
2	TUE
3	WED
4	THUR
5	FRI
6	SAT

Q. What was the day of the week on 12 May 1825?

12 मई 1825 को सप्ताह का कौन सा दिन था?

(A) Sunday

(B) Friday

~~(C) Thursday~~

(D) Wednesday

12 May 1825

completed year

1824 → 5 odd + 6 days

going year 1825

Jan → 3
Feb → 0
March → 3
April → 2
May → 5

13 1 week + 6 extra day

11
4 odd

1600
↓
0

33
4 week
5 odd
3 odd days

1800

+ 24

N4	LP
18	6
<u>x1</u>	<u>x2</u>
18	12

Q. What will the day of week on '15 January 1905 ?

15 जनवरी 1905 को सप्ताह का कौन सा दिन होगा?

$7 = 1 \text{ week} + 0 \text{ extra day}$

(A) Monday

(B) Tuesday

~~(C) Sunday~~

(D) Wednesday

(15) Jan 1905

Completed year
1904

going year
1905

Jan 15 → 2 week + 1 extra day

$(1600 + 300)$
↓ ↓
(0 + 1)

1900
↓
(1 odd)

+ 4
01 - 1
02 - 1
03 - 1
04 - 2

5

Reverse \Rightarrow 27 Aug 2017 \rightarrow Monday - (odd)
 10 March 2013 \rightarrow =

Q. If 10 March 2013 is a Monday. Which day of the week will be on 27 August 2017?

यदि 10 मार्च 2013 को सोमवार है। 27 अगस्त 2017 को सप्ताह का कौन सा दिन होगा?

- (A) Sunday
- (B) Friday
- ~~(C) Monday~~
- (D) Thursday

Date
Month
year } different
17
 2 week + (3 extra)

March \rightarrow 3
 April \rightarrow 2
 May \rightarrow 3
 June \rightarrow 2
 July \rightarrow 3

 13
 1 week + (6 extra)

10 March 2013 \rightarrow Monday + 0
 27 Aug 2017 \rightarrow ? Monday
 13 - 1
 14 - 1
 15 - 1
 16 - 2

 5
 2 week + 0 Extra day

14
 ↓

Q. If 5 January 2001 is a Monday. Which day of the week will be on 5 January 2007?

यदि 5 जनवरी 2001 को सोमवार है। 5 जनवरी 2007 को सप्ताह का कौन सा दिन होगा?

- (A) Sunday
- (B) Friday
- (C) Monday
- (D) Tuesday

5 Jan 2001 → Monday + 0
 5 " 2007 → ? Monday

Same different

01 → 1
 02 → 1
 03 → 1
04 → 2
 05 → 1
 06 → 1

 7 = 1 week

Q. If 10 May 2013 is a Sunday. Which day of the week will be on 10 Oct 2013?

यदि 10 मई 2013 को रविवार है। 10 अक्टूबर 2013 को सप्ताह का कौन सा दिन होगा?

- (A) Saturday
- (B) Friday
- (C) Thursday
- (D) Tuesday

Same

10 May 2013 → Sunday + 6
 10 Oct 2013 → ? Saturday

Months different

May → 3
 June → 2
 July → 3
 Aug → 3
 Sep → 2

$\frac{13}{13}$
 1 week + 6 extra

10 Oct 2013 → Sunday (-)
 10 May 2013 → ?

Q. Which day of week will the last day of a century?

सदी का आखिरी दिन सप्ताह का कौन सा दिन होगा?

- (A) Friday
- (B) Tuesday
- (C) Thursday
- (D) Saturday

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HW 4:00
Reasoning

Comment

