Q 1 - What was the day of the week on 15th June, 1776 ?
A - Sunday
B - Saturday
C - Thursday
D - None of these

## Answer - B

## Explanation

```
15
Counting of odd days:
No of odd days in 1600 years = 0
No of odd days in 100 years = 5
75 years = 18 leap years + 57 ordinary years
= 18*2 + 57*1
= 36 + 57
= 93 odd days
= 13 weeks + 2 odd days = 2 odd days
\therefore1775 years have (0+5+2) = 7 odd days = 0 odd days.
Jan to May = (31+29+31+30+31)
= 152 days
Add }15\mathrm{ days of June.
= 152 + 15
= 167 days
= 23 weeks + 6 days
= 6 odd days.
\therefore Total number of odd days = 0 + 6 = 6 odd days.
Hence 15.06.1776 was Saturday.
```


## Q 2 - January 15, 1997 was a Wednesday. What day of the week was on Jan 5, 2000?

A - Wednesday
B - Thursday
C - Friday
D - Saturday

## Answer - A

## Explanation

```
1997, 1998 and 1999 are not leap years.
1998 and 1999 has 2 odd days.
No of days remaining in 1997=365-15 = 350
= 50 weeks of 0 odd days.
05.01.2000 = 5 odd days.
```

```
Total no of odd days = 2 + 0 + 5 = 7
7 \text { days from Wednesday is Wednesday.}
\thereforeJan 5, 2000 was also Wednesday.
```


## Q 3 - The calendar for the year 2007 will be the same for the year:

A - 2018

B-2017
C-2016

D - 2014

## Answer - A

## Explanation

```
We will count the no of odd days from the year 2007 onwards to get the sum equal
to 0 odd days.
\begin{tabular}{|l|l|l|l|l|l|l|l|l|l|l|l|}
\hline Year & 2007 & 2008 & 2009 & 2010 & 2011 & 2012 & 2013 & 2014 & 2015 & 2016 & 2017 \\
\hline Odd day & 1 & 2 & 1 & 1 & 1 & 2 & 1 & 1 & 1 & 2 & 1 \\
\hline
\end{tabular}
```

```
Sum = 14 odd days = 0 odd days
Calendar for the year 2018 will be the same for the year 2007.
```

Q 4 - Will date-book for the year 2003 serve for the year 2014 ?
A - no

B - yes

## Answer - B

## Explanation

```
We must have same day on 1.1.2003 and 1.1.2014.
Along these lines, number of odd days somewhere around 31.12.2002 and
31.12.2013 must be 0. This period has 3 jump years and 8 common years.
Number of odd days = (3*2+8*1) =14=0 odd days.
\therefore Calendar for the year 2003 will serve for the year 2014.
```

Q 5 - What was the week's day on fifteenth august, 1947?
A - Rs 1720
B-Rs 1820
C - Rs 1920
D - Rs 1220

## Answer - C

## Explanation

```
fifteenth Aug.1947 =(1946 years +period from 1.1.1947 to 15.8.1947)
Odd days in 1600 years =0
Odd days in 300 years = (5* 3) =15 =1946 years = (11 jump years+35 customary years)
=(11*2 +35*1) odd days= 57 days
=(8 weeks +1 day) = 1 odd day
\therefore odd days in 1946 years= (0+1+1) =2
Jan + Feb. + March + April + May + June + July + Aug
(31+28+31+30+31+30+31+15) = 227 days
227 days = (32 weeks +3 days) = 3 odd days.
Aggregate no. of odd days = (2+3)=5
Consequently the required day is Friday.
```

aptitude_calendar.htm

