# **CALENDAR - SOLVED EXAMPLES**

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#### 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^{th} June 1776 = (1775 years + Period from 01.01.1776 to 15.06.1776)
Counting of odd days:
No of odd days in 1600 years = 0
No of odd days in 100 \text{ 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
\therefore 1775 years have (0+5+2) = 7 odd days = 0 odd days.
Jan to May = (31+29+31+30+31)
= 152 \text{ days}
Add 15 days of June.
= 152 + 15
= 167 \text{ 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 = 77 days from Wednesday is Wednesday. .: Jan 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.

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Odd day	1	2	1	1	1	2	1	1	1	2	1

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

∴ 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.

■
```

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